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# The Ontario Gazette

## La Gazette de l'Ontario

Vol. 130-48  
Saturday, November 29th, 1997

Toronto

ISSN 0030-2937  
Le samedi 29 novembre 1997

### Criminal Code Code criminel

#### DESIGNATION OF QUALIFIED TECHNICIANS (BREATH SAMPLES)

NOTICE IS HEREBY GIVEN that pursuant to subsection 254 (1) of the Criminal Code (Canada), the Honourable Robert W. Runciman, Solicitor General and Minister of Correctional Services of Ontario, on the 4th of November 1997, designated the following persons as being qualified to operate the approved instrument known as the Intoxilyzer® 5000C.

#### NOMINATION DE TECHNICIENS QUALIFIES (ECHANTILLONS D'HALEINE)

L'AVIS PRESENT est donné qu'en vertu du paragraphe 254 (1) du Code Criminel du Canada, l'honorable Robert W. Runciman, Solliciteur Général et Ministre des Services Correctionnels de l'Ontario, le 4 novembre 1997, désigna les personnes suivantes comme étant qualifiées pour manipuler l'alcootest approuvé connu sous le nom de Intoxilyzer® 5000C.

Maureen Bernard	Ontario Provincial Police
John G. Coady	Ontario Provincial Police
Pierre Emond	Ontario Provincial Police
Jamie Aldrich	Ottawa Carleton Regional Police
Leesa Baldwin	Ottawa Carleton Regional Police
Alex Bender	Ottawa Carleton Regional Police
Dan Berrea	Ottawa Carleton Regional Police
Stephanie Burns	Ottawa Carleton Regional Police
Jennifer Cranton	Ottawa Carleton Regional Police
Derek J. Frawley	Peterborough Community Police Service
Cynthia Koch	Ottawa Carleton Regional Police
Benoit Lalonde	Ottawa Carleton Regional Police
Linda Leung	Ottawa Carleton Regional Police
Stuart Marshall	Ottawa Carleton Regional Police
Quan McHenry	Ottawa Carleton Regional Police
Shawn C. Piercy	Ottawa Carleton Regional Police
Pamela Scharf	Ottawa Carleton Regional Police
Samuel Wayne Smith	Ottawa Carleton Regional Police
Nicole St. John	Ottawa Carleton Regional Police
Nancy Walsh	Peterborough Community Police Service

(6103) 48

### Proclamations

(Great Seal of Ontario)

ROY McMURTRY

#### PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

#### PROCLAMATION

##### *BUDGET MEASURES ACT, 1994*

We, by and with the advice of the Executive Council of Ontario, name Monday December 1, 1997 as the day upon which Part X of the *Budget Measures Act, 1994*, comes into force.

#### WITNESS:

THE HONOURABLE ROY McMURTRY  
CHIEF JUSTICE OF ONTARIO

ADMINISTRATOR OF THE GOVERNMENT OF OUR  
PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on November 19, 1997.

#### BY COMMAND

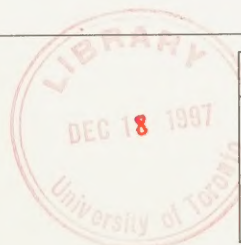
CHRIS HODGSON  
Chair of the Management Board of Cabinet

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(Great Seal of Ontario)

ROY McMURTRY

PROVINCE DE L'ONTARIO

*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

PROCLAMATION

*LOI DE 1994 SUR LES MESURES BUDGÉTAIRES*

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le lundi 1<sup>er</sup> décembre 1997 comme le jour où entre en vigueur la Partie X de la *Loi de 1994 sur les mesures budgétaires*.

TÉMOIN :

L'HONORABLE ROY McMURTRY  
JUGE EN CHEF DE L'ONTARIO

ADMINISTRATEUR DU GOUVERNEMENT DE  
NOTRE PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 19 novembre 1997.

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement

(6101) 48

(Great Seal of Ontario)

ROY McMURTRY

PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

PROCLAMATION

*RED TAPE REDUCTION ACT (MINISTRY OF FINANCE), 1997*

We, by and with the advice of the Executive Council of Ontario, name Monday December 1, 1997 as the day upon which Section 13 of the *Red Tape Reduction Act (Ministry of Finance), 1997*, comes into force.

WITNESS:

THE HONOURABLE ROY McMURTRY  
CHIEF JUSTICE OF ONTARIO

ADMINISTRATOR OF THE GOVERNMENT OF OUR  
PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on November 19, 1997.

BY COMMAND

CHRIS HODGSON  
Chair of the Management Board of Cabinet

(Great Seal of Ontario)

ROY McMURTRY

PROVINCE DE L'ONTARIO

*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

PROCLAMATION

*LOI DE 1997 VISANT À RÉDUIRE LES FORMALITÉS ADMINISTRATIVES AU MINISTÈRE DES FINANCES*

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le lundi 1<sup>er</sup> décembre 1997 comme le jour où entre en vigueur l'article 13 de la *Loi de 1997 visant à réduire les formalités administratives au ministère des Finances*.

TÉMOIN :

L'HONORABLE ROY McMURTRY  
JUGE EN CHEF DE L'ONTARIO

ADMINISTRATEUR DU GOUVERNEMENT DE  
NOTRE PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 19 novembre 1997.

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement

(6102) 48

## Motor Vehicle Transport Act/Truck Transportation Act Loi sur les transports routiers/Loi sur le camionnage

The following are applications for operating licences under the *Truck Transportation Act*, R.S.O. 1990, Chapter T.22, and/or the *Motor Vehicle Transport Act*, 1987, Chapter 35. The applicants have met the fitness requirements pursuant to Section 6 of the *Truck Transportation Act* and/or Section 8(2) of the *Motor Vehicle Transport Act*, 1987 and the provincial transport board and/or the Registrar of Motor Vehicles proposes to issue the licences if no written objection is served on the applicant and filed with the Registrar of Motor Vehicles, within thirty days of this publication.

The following applicants have applied for Authority to offer a transportation service for the carriage of Goods:

On trouvera ci-après la liste des demandes de permis d'exploitation présentées en vertu de la *Loi sur le camionnage*, L.R.O. 1990, chapitre T.22, et/ou la *Loi de 1987 sur les transports routiers*, L.C. 1987, chapitre 35. On a jugé que les personnes ayant présenté ces demandes se conformaient aux critères d'aptitude prévus au paragraphe 8(2) de la *Loi de 1987 sur les transports routiers* et l'office des transports de l'Ontario et/ou le registraire des véhicules automobiles dans les trente jours suivant la publication des présentes.

Les personnes suivantes ont demandé l'autorisation d'offrir des services de transport de marchandises à destination.



**B.E.S.S. TRUCKING INC.**  
S STE MARIE, ON

**LES ENTREPRISES ROUTIERES INC.**  
TROI RIVIERES, QC

**TRANSPORT PIER-GI INC.**  
LA PLAINE, QC

**BOUDREAU, J-ROY, J.**  
MACKAY, ON

**LES TRANSPORTS GRENIER INC.**  
BLACK LAKE, QC

**TUBB, JAMES, THOMAS**  
MITCHELL, ON

**BOYS, RONALD, JAMES**  
ORANGEVILLE (D), ON

**LEVEILLE, DAVID, A.**  
GOULAIS RIVER, ON

**TWISS TRANSPORTATION LTD.**  
MILTON, ON

**BRISEBOIS, JOHN**  
SUTTON, ON

**MCCORRISTON, DAVID, R.**  
GARSON, ON

**WHITE, MALCOLM, J./ELLIOTT,**  
DIANNE, B.  
MILTON, ON

**CHAPMAN, TERRY, M.**  
SUTTON, ON

**NUHN INDUSTRIES LTD.**  
SEBRINGVILLE, ON

**1074052 ONTARIO LIMITED**  
OPASATIKA, ON

**CHARRON, JEAN-GUY**  
CHAPLEAU, ON

**PAQUETTE, NORMAND, A.**  
AZILDA, ON

**2849-2601 QUEBEC INC.**  
CARIGNAN, QC

**ENGLISH, ROBERT, B.**  
ALLISTON, ON

**POWER FREIGHT SYSTEMS INC.**  
COLDWATER, ON

**675707 ONTARIO INC.**  
NEW LISKEARD, ON

**FALCON PRIORITY DELIVERY**  
SERVICES INC.  
TORONTO, ON

**ROAD RUNNER TRUCKING INC.**  
BLOOMFIELD HILLS, MI

**9030-7117 QUEBEC INC.**  
ROCK FOREST, ON

**HENSLEY INDUSTRIES INC.**  
NICHOLASVILLE, KY

**ROXBURGH, ELDON, WAYNE**  
GRAND VALLEY, ON

**9051-0728 QUEBEC INC.**  
MONTREAL, QC

**JENSTAR LTD.**  
CHESTERTVILLE, ON

**SPEAR, VERNON, C.**  
RIDGEWAY, ON

**9051-5412 QUEBEC INC.**  
ST ELIE D'ORFORD, QC

**LIDLAW CARRIERS**  
CHICOUTIMI, QC

**TALPIS, ARKADI**  
DOWNSVIEW, ON

**LARIVIERE, PAUL**  
HANMER, ON

**TRANSPORT L & G. AUDET INC.**  
CARIGNAN, QC

J. Greig Beatty  
Chef de Service  
Manager

## ONTARIO HIGHWAY TRANSPORT BOARD

### NOTICE

Periodically, temporary applications are filed with the Board. Details of these applications can be made available at anytime to any interested parties by calling (416) 326-6732.

The following are applications for extra-provincial and public vehicle operating licences filed under the *Motor Vehicle Transport Act, 1987*, and the *Public Vehicles Act*. All information pertaining to the applicant *i.e.* business plan, supporting evidence, etc. is on file at the Board and is available upon request.

Any interested person who has an economic interest in the outcome of these applications may serve and file an objection within 29 days of this publication. The objector shall:

1. complete a Notice of Objection Form,
2. serve the applicant with the objection,
3. file a copy of the objection and provide proof of service of the objection on the applicant with the Board,
4. pay the appropriate fee.

Serving and filing an objection may be effected by hand delivery, mail, courier or facsimile. Serving means the date received by a party and filing means the date received by the Board.

LES LIBELLÉS DES DEMANDES PUBLIÉES CI-DESSOUS SONT AUSSI DISPONIBLES EN FRANÇAIS SUR DEMANDE.

**Hendry Coach Lines Inc.** 45537-A  
33 Yellow Birch Dr., Kitchener, Ont. N2N 2M1

Applies for a public vehicle (school bus) operating licence as follows:

For the transportation of students attending the Crestwicke Christian Academy, located at 400 Speedvale Road East, Guelph, Ontario, between the residences of the students located in the County of Wellington and the Regional Municipality of Waterloo and the Crestwicke Christian Academy.

PROVIDED that chartered trips be restricted to school purposes and only for the Crestwicke Christian Academy.

**Gordon T. Montgomery Limited** 21119-N/O/P  
701 Campbell St., Lucknow, Ont. N0G 2H0

Applies for the approval of the transfer of extra-provincial operating licence No. X-1320, public vehicle operating licence No. PV-3316 and public vehicle (school bus) operating licence No. PVS-4783 all now in the name of Lawrence Diamond Coach Lines Limited, located at Main St., P.O. Box 161, Shakespeare, Ont. N0B 2P0.

Felix D'Mello  
Board Secretary  
Secrétaire de la Commission



## Government Notices Respecting Corporations Avis du gouvernement relatifs aux compagnies

### Corrected Certificate of Incorporation Certificat de constitution rectifié

NOTICE IS HEREBY GIVEN that, a corrected certificate of incorporation under the *Business Corporations Act*, has been endorsed: The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LES PRÉSENTES de la délivrance d'un certificat de constitution rectifié en vertu de la *Loi sur les sociétés par actions*. (La date d'entrée en vigueur précède la liste des compagnies visées.)

Name of Corporation: Dénomination sociale :	Ontario Corporation Number Numéro matricule de l'Ontario
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1985-1-30 603313 ONTARIO INC. ....	603313
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48/97

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

### Corrected Certificates of Amalgamation Certificat de fusion rectifié

NOTICE IS HEREBY GIVEN that, a certificate of amalgamation under the *Business Corporations Act*, has been endorsed: The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LES PRÉSENTES de la délivrance d'un certificat de fusion rectifié en vertu de la *Loi sur les sociétés par actions*. (La date d'entrée en vigueur précède la liste des compagnies visées.)

Name of Amalgamating Corporation: Amalgamating Corporations Dénomination sociale de la société issue de la fusion et des sociétés ayant fusionné :	Ontario Corporation Number Numéro matricule de l'Ontario
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1996-11-1 R. ELOUL INC. ....	1207416
R. ELOUL INC., R. ELOUL ARTS INC.	
1996-12-4 WESTBROOK CAPITAL CORPORATION. ....	1211705
CIMA GIFT INC., WESTBROOK CAPITAL CORPORATION, AURALIM LTD., EIGHTY-EIGHT LIMITED	

48/97

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

### Corrected Certificates of Amendment Certificat de modification rectifié

NOTICE IS HEREBY GIVEN that, under the *Business Corporations Act*, corrected certificates of amendment have been effected as follows: The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LES PRÉSENTES de la délivrance d'un certificat de modification rectifié en vertu de la *Loi sur les sociétés par actions*. (La date d'entrée en vigueur précède la liste des compagnies visées.)

Name of Corporation: Dénomination sociale :	Ontario Corporation Number Numéro matricule de l'Ontario
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1993-12-22 SERITA INCORPORATED. ....	526170
1996-12-30 1215827 ONTARIO LIMITED .....	1215827

48/97

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

### Certificates of Dissolution Certificats de dissolution

NOTICE IS HEREBY GIVEN that a certificate of dissolution under the *Business Corporations Act*, has been endorsed: The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément à la *Loi sur les compagnies*, un certificat de dissolution a été inscrit pour les compagnies suivantes : la date d'entrée en vigueur précède la liste des compagnies visées.

Name of Corporation: Dénomination sociale de la compagnie :	Ontario Corporation Number Numero de la compagnie en Ontario
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1997-11-4 YU-HAN TRADING CO. LTD. ....	1049697
478969 ONTARIO INC. ....	478969
1997-11-6 CAN-LIT NO. 1 INC. ....	1116552
STANLEY LUCKASAVITCH LOGGING LTD. ....	520425
1997-11-7 CALVIN A. WAITE AND SONS LIMITED. ....	420705
1997-11-10 AMERIMAN CORP. ....	1077949
FILM FINANCES (ONTARIO) INC. ....	1205143
GREEN SOUND COMPANY LIMITED .....	1082222
NORTH AMERICAN SOFTWARE & HARDWARE DISTRIBUTORS INC. ....	802250
SPEEDMAX COMPONENT SUPPLIES LTD. ....	1036984
THRIFTWAY DISTRIBUTING CORPORATION .....	1163831
YUE KEE ANTIQUE COMPANY LTD. ....	1003288
910640 ONTARIO LIMITED .....	910640
942226 ONTARIO LIMITED .....	942226
1997-11-12 CAMPUS SHOP OF STRATFORD LIMITED. ....	598603
INDUSTRIAL SPRAY PAINTERS LIMITED .....	788604
PROPERTY HOUSE CORPORATION (CANADA) LIMITED ..	314073
RICHMOND INTERNATIONAL MARKETING INC. ....	1049181
VERSATEMP HEATING & COOLING LTD. ....	643024
914585 ONTARIO LIMITED .....	914585
967859 ONTARIO INC. ....	967859
1073477 ONTARIO INC. ....	1073477
1148168 ONTARIO LTD. ....	1148168
1213709 ONTARIO LTD. ....	1213709
1997-11-13 ACCURATE MILLWRIGHTS INC. ....	804864
GREEN MEADOWS SUBDIVISION INC. ....	694405
M. METELLUS SERVICES INC. ....	1135207



Name of Corporation:	Ontario Corporation Number
Dénomination sociale	Numéro de la
de la compagnie :	compagnie en Ontario

MGV SOFTWARE INC.....	865225
MGV SYSTEMS INC.....	941856
580541 ONTARIO INC.....	580541
957530 ONTARIO LIMITED .....	957530
1100960 ONTARIO LIMITED.....	1100960
1142940 ONTARIO INC.....	1142940
<b>1997-11-14</b>	
646716 ONTARIO INC.....	646716

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

48/97

## Notice of Default in Complying with the Corporations Information Act Avis de non-observation de la loi sur les renseignements exigés des compagnies et des associations

NOTICE IS HEREBY GIVEN under subsection 241 (3) of the *Business Corporations Act* that unless the corporations listed hereunder comply with the filing requirements under the *Corporations Information Act* within 90 days of this notice orders dissolving the corporation(s) will be issued. The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LES PRÉSENTE que, conformément au paragraphe 241 (3) de la *Loi sur les sociétés par actions*, si les compagnies mentionnées ci-dessous ne se conforment pas aux exigences de dépôt requises par la *Loi sur les renseignements exigés des compagnies et des associations* dans un délai de 90 jours suivant la réception du présent avis, des ordonnances de dissolution seront délivrées contre lesdites compagnies. La date d'entrée en vigueur précède la liste des compagnies visées.

Name of Corporation:	Ontario Corporation Number
Dénomination sociale	Numéro de la
de la compagnie :	compagnie en Ontario

<b>1997-11-17</b>	
CLASSIC COLLECTIBLES INC.....	1054800
NIGEL COMPUTERS LTD. ....	1184373

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

48/97

## Notice of Default in Complying with a Filing Requirement Under the Corporations Information Act Avis de non-observation de la loi sur les renseignements exigés des compagnies et des associations

NOTICE IS HEREBY GIVEN under subsection 317 (9) of the *Corporations Act*, that unless the corporations listed hereunder comply with the requirements of the *Corporations Information Act* within 90 days of this Notice, orders will be made dissolving the defaulting corporations. The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément au paragraphe 317 (9) de la *Loi de sur les compagnies et associations*, si les exigences requises par la *Loi sur les renseignements exigés des compagnies et des associations* dans un délai de 90 jours suivant la réception du présent avis, des ordonnances de dissolution seront délivrées contre lesdites compagnies. La date d'entrée en vigueur précède la liste des compagnies visées.

Name of Corporation:	Ontario Corporation Number
Dénomination sociale	Numéro de la
de la compagnie :	compagnie en Ontario

<b>1997-4-29</b>	
SHIRLEY SAMAROO HOUSE OF THE CITY OF YORK.....	590165
<b>1997-11-17</b>	
SEDIAE ZAMANEH LITERARY GROUP.....	1009027

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

48/97

## Erratum Notice Avis d'Erreur

Ontario Corporation Number 546408

Vide Ontario Gazette, Vol. 129-38 dated September 21, 1996

NOTICE IS HEREBY GIVEN that the notice issued under section 241 (4) of the *Business Corporations Act* set out in the issue of The Ontario Gazette of September 21, 1996 with respect to the cancellation of the Certificate of Incorporation of **Cloutier Construction Co. Ltd.** was issued in error and is null and void.

Numéro de société en Ontario : 546408

cf. Gazette de l'Ontario, Vol. 129-38 datée du septembre 21, 1996

PAR LA PRÉSENTE, nous vous informons que l'avis émis en vertu de l'article 241 (4) de la *Loi sur les compagnies* et énoncé dans la Gazette de l'Ontario du septembre 21, 1996 relativement à l'annulation du certificat de constitution en personne morale de **Cloutier Construction Co. Ltd.** a été délivré par erreur et qu'il est nul et sans effet.

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

48/97

## Cancellation of Certificates of Incorporation (Corporations Tax Act Defaulters) Annulation de certificats de constitution en personne morale (Non-respect de la Loi sur l'imposition des personnes morales)

NOTICE IS HEREBY GIVEN that, under subsection 241 (4) of the *Business Corporations Act*, the Certificates of Incorporation of the corporations named hereunder have been cancelled by an order dated 3 November 1997 for default in complying with the provisions of the *Corporations Tax Act*, and the said corporations have been dissolved on that date.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément au paragraphe 241(4) de la *Loi sur les compagnies*, les certificats de constitution en personne morale des compagnies dont les noms apparaissent



ci-dessous ont été annulés par décision datée du 3 novembre 1997 pour non-respect des dispositions de la *Loi sur l'imposition des personnes morales* et que la dissolution des compagnies concernées prend effet à la date susmentionnée :

Name of Corporation	Ontario Corporation Number
Dénomination sociale de la compagnie	Numéro de la compagnie en Ontario
BEDFORD & PADMORE PLUMBING HEATING & DRAINS INC. ....	723836
BRICKHOUSE CONSTRUCTION LTD. ....	755421
GOLDEN MAPLE HOTELS LIMITED ....	332496
HOWARD S. LEE REAL ESTATE LTD. ....	260315
HQ TORONTO (AIRPORT) INC. ....	977350
INDO CANADA FOODS LIMITED. ....	975525
JORMEG CONSTRUCTION LIMITED. ....	766493
LIN/KEN ENTERPRISES INC. ....	752195
MGM MECHANICAL LIMITED. ....	817147
NOORTON PRINTING AND OFFICE SUPPLIES INC. ....	869733
PARKHILLVIEW ESTATES LIMITED. ....	817170
PAUL HORVAT INVESTMENTS LIMITED. ....	374562
ROMEUX MEN'S FASHIONS LTD. ....	915958
SOULARION HOLDINGS INC. ....	821859
WILLOW HEIGHTS CONSTRUCTION LTD. ....	755013
WINDSOR FLOOR SANDING COMPANY LIMITED. ....	331034
WOOD-CORVETTE INTERNATIONAL TRANSPORT DRIVER TRAINING INC. ....	966136
563750 ONTARIO LIMITED. ....	563750
712059 ONTARIO LTD. ....	712059
851192 ONTARIO LTD. ....	851192
888004 ONTARIO LIMITED. ....	888004
921494 ONTARIO LIMITED. ....	921494
966055 ONTARIO INC. ....	966055
998411 ONTARIO INC. ....	998411
998824 ONTARIO LIMITED. ....	998824
1029424 ONTARIO LIMITED. ....	1029424

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

48/97

## Notice of Default in Complying with the Corporations Tax Act

### Avis d'inobservation de la loi sur les corporations

The Director has been notified by the Minister of Revenue that the following corporations are in default in complying with the *Corporations Tax Act*.

NOTICE IS HEREBY GIVEN under subsection 241 (1) of the *Business Corporations Act*, that unless the corporations listed hereunder comply with the requirements of the *Corporations Tax Act* within 90 days of this notice, orders will be made dissolving the defaulting corporations. All enquiries concerning this notice are to be directed to Corporations Tax Branch, Ministry of Revenue, 33 King Street West, Oshawa, Ontario, L1H 8H6.

Le ministre du Revenu a informé l'administrateur unique que les compagnies suivantes n'avaient pas respecté la *Loi sur l'imposition des personnes morales*.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément au paragraphe 241 (1) de la *Loi sur les compagnies*, si les compagnies citées ci-dessous ne se conforment pas aux prescriptions énoncées par la *Loi sur l'imposition des personnes morales* dans un délai de 90 jours suivant la réception du présent avis, lesdites compagnies se verront dissoutes par décision. Pour tout renseignement relatif au présent avis,

veuillez vous adresser à la Direction de l'imposition des compagnies, ministère du Revenu, 33, rue King ouest, Oshawa (Ontario) L1H 8H6.

Name of Corporation	Ontario Corporation Number
Dénomination sociale de la compagnie	Numéro de la compagnie en Ontario
ARTE IMPORTS INC. ....	869826
DONADIO INVESTMENTS LTD. ....	793491
EURO CANADIAN CAPITAL CORPORATION. ....	697325
I.C.R. CONSTRUCTION LIMITED. ....	481076
J.D.S. (VAUGHAN) LIMITED. ....	859124
LUXER CORPORATION. ....	517974
MARA-TECH AVIATION SERVICES (SOO) LTD. ....	786259
MNT MANIMEX INC. ....	782822
SOFT OPTIONS INC. ....	904180
STARS OF MALWA INVESTMENTS INC. ....	695488
281517 ONTARIO INC. ....	281517
696284 ONTARIO LIMITED. ....	696284
782308 ONTARIO LIMITED. ....	782308

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

48/97

## Cancellation of Certificate of Incorporation (Business Corporations Act) Annulation de certificat de constitution en personne morale (Loi sur les sociétés par actions)

NOTICE IS HEREBY GIVEN that by orders under subsection 241 (4) of the *Business Corporations Act*, the certificates of incorporation set out hereunder have been cancelled and corporation(s) have been dissolved. The effective date of cancellation precedes the corporation listing.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément au paragraphe 241 (4) de la *Loi sur les sociétés par actions*, les certificats présentés ci-dessous ont été annulés et les compagnies ont été dissoutes. La dénomination sociale des compagnies concernées est précédée de la date de prise d'effet de l'annulation.

Name of Corporation:	Ontario Corporation Number
Dénomination sociale de la compagnie :	Numéro de la compagnie en Ontario
1997-11-19	
CHAMP CENTRAL STUDIO INC. ....	1184753
DIAMARIC INVESTMENTS (1993) INC. ....	1013466
PARMALAT INC. ....	1085695
QADRI & ASSOCIATES INC. ....	1020855
STITTSVILLE MEAT & DELI LTD. ....	1028613
TELEDESIC CORP. ....	1095546
THE BISHOP COMPANY INC. ....	909732
TUBAL COMMUNICATIONS INC. ....	1002957
WINDSOR RARITIES CANADA LTD. ....	1064823
696169 ONTARIO LIMITED. ....	696169
1062042 ONTARIO LIMITED. ....	1062042
1111817 ONTARIO INC. ....	1111817
1176286 ONTARIO INC. ....	1176286
1176287 ONTARIO INC. ....	1176287
1184660 ONTARIO INC. ....	1184660

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

48/97



**Credit Unions and Caisses  
Populaires Act  
(Certificate of Amendment of  
Articles Issued)  
Loi sur les caisses populaires  
et les credit unions  
(Certificat de modification des statuts)**

NOTICE IS HEREBY GIVEN that, under the *Credit Unions and Caisses Populaires Act*, amendments to articles have been effected as follows:

AVIS EST PAR LES PRÉSENTES DONNÉ qu'en vertu de la *Loi sur les caisses populaires et les credit unions*, les modifications des statuts ont été apportées comme suit :

Date of Incorporation: Date de constitution :	Name of Corporation: Nom de la compagnie :	Effective Date Date d'entrée en vigueur
1940-8-20	Communication Technologies Credit Union Limited (formerly Ontario Telephone Employees' Credit Union Limited)	1997-11-5
48/97	JOHN M. HARPER, Director Credit Unions and Co-operatives Services Branch Ministry of Finance Directeur Direction des caisses populaires et des coopératives Ministère des Institutions Financières	

**Credit Unions and Caisses Populaires Act  
(Certificate of Amalgamation)  
Loi sur les caisses populaires et  
les credit unions  
(Certificat de fusion)**

NOTICE IS HEREBY GIVEN that, a certificate of amalgamation under the *Credit Unions and Caisses Populaires Act*, has been endorsed: The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LES PRÉSENTES de l'inscription du certificat de fusion faite en vertu de la *Loi sur les caisses populaires et les credit unions*. La date d'entrée en vigueur précède la liste de compagnies visées.

Name of Amalgamating Corporation: Amalgamating Corporations Dénomination sociale de la compagnie issue de fusion :	Ontario Corporation Number
Compagnies qui fusionnent	Numéro matricule de l'Ontario

**1997-10-1**  
GREATER TORONTO AREA (GTA) SAVINGS &  
CREDIT UNION LIMITED.....0958387  
(Markham-Stouffville Community Credit Union Limited  
and Uxbridge Credit Union Limited)

JOHN M. HARPER,  
Director,  
Credit Unions and Co-operatives  
Services Branch,  
Financial Institutions Division  
Directeur,  
Direction des Services aux Caisses  
Populaires et aux Coopératives,  
Division des Institutions Financières.

48/97

**Change of Name Act  
Loi sur le changement de nom**

NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending October 3, 1997. The listing below shows the previous name followed by the new name.

AVIS EST DONNÉ PAR LES PRÉSENTES que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 3 octobre 1997. La liste ci-dessous indique les anciens noms suivis les nouveaux noms.

Abdalla, Zahra Mohammed — Abdalla, Zahra Mohamade  
Agbeko, Annette Morkor — Danso-Manu, Annette Morkor  
Aghaali-Zadeh, Farzaneh — Shirazi, Farzaneh  
Ahmad Jan, Masudah — Anwari, Masudah  
Al-Hillal, Semareh — Al-Hillal Anderson, Semareh  
Alam, Alya Tabassum — Khan, Urooj  
Ali, Bibi Haleema — Thondumpallil, Holly James  
Amato, Nicolina — Di Diodato, Nicolina  
Ambo, Ralph Stephen — Logan, Chance S.  
Arnold, Dawn Catherine — King, Dawn Catherine  
Atar, Galit — Jennewein, Galit  
Au, Henry Tak Fung — Ou, Ricco Fung  
Avati, Lisa Champa — Nanavati-Fong, Lisa Champa  
Ayala, Rosa Maria — Contreras, Rosa Maria  
Bacsalmasi, Erzsebet — Bacsalmasi, Elizabeth  
Bains, Manpreet Singh — Bains, Manny Singh  
Barran, Denise Indera — Barran Dindyal, Denise Indera  
Bartlik, Virginia Lynn — Connon, Virginia Lynn  
Batchasingh, Shane Rory Nari — Anderson, Rory  
Bautista, Cecilia Mislant — Albino, Cecilia Mislant  
Belanger, Mary Debra-Ann — Brown, Mary Debra-Ann  
Bellaire, George — Dalbec, Georges Regis  
Bellemare, Andre — Belmar, Guy  
Benoit, Marie Therese Vincela — Levert, Vincela Therese  
Berkley, Hindy Beth — Brass, Hindy Beth  
Biadegeline, Emebet Zeleke — Biadegeline, Bethany  
Bil, Joanna — Cielecki, Joanna  
Blades, Louise Janet — Hruđa, Louise Janet  
Bobos, Amelia Penis — Jumaquio, Amelia Penis  
Bongato, Vilma Villanueva — Baptista, Vilma Villanueva  
Bonjean, Roy Arnold — Leblanc, Roy Arnold  
Bowman, Melissa Ann — Bowman Wilson, Melissa Ann  
Boyle, Carolyne Louise — Jeffery, Carolyne Louise  
Brana, Jether Ignacio — Ocaj, Elam Lot  
Bressette, Rose Marie Krystal — Giffen, Rose Marie Krystal  
Breuninger, Rosanne — Hardy, Rosanne  
Brough, Victoria Ann — Seymour, Victoria Ann  
Brown, Rose Eileen — Hooker, Rose Eileen  
Buie, Diana Margaret — Buie, Anne Margaret  
Burley, Thomas Russell Dean — Nevett, Thomas Russell Dean  
Burns, Emmett Allan Vincent — Kelly, Emmett Allan Vincent  
Butler, Curtis Ace Rodney — Hamilton, Curtis Gregory  
Byron, Yolande Natasha — Byron, Yolande Natasha Maria  
Carter, Jocelyn Sian — Carter Macri, Jocelyn Sian  
Case, Christopher Dean — Mott, Christopher Dean  
Chan, Ho Chun — Chan, Alvin Ho Chun  
Chan, Wan-Yung — Yeung, Wan-Yung  
Chan, Yu-Pik — Chan, Mary-Anne Jeanne  
Chen, Li — Chen, Eric Li  
Chidda, Sandra — Persaud, Sandra  
Chiem, Hoang Son Jacky — Chiem, Jack  
Choquette, James Douglas — Hembuff, James Douglas  
Chow, Chin Shang — Chow, Stanley C. S.  
Chung, Kin Wai — Chung, Daniel Kin-Wai  
Churchill, Shelby Rose — Swan, Shelby Rose Hyder  
Clark, Crystal Margaret — O'hara, Crystal Margaret  
Clarke, Theresa Marie — Siegner, Theresa Marie  
Colantonio, Concettina Maria — Catalano, Concettina Maria  
Cook, Ernest Alfred — Miles, Ernest Alfred  
Cooke, Laura Ann — Cummings, Laura Ann  
Coward, Randall Roy — Zonner, Elden  
Crawford, Paul Alexander — Crawford, William Paul Alexander  
Crowder, William Shawn — Brown, William Sean  
Crowley, Yvonne Marie — Metcalfe, Yvonne Marie



- Culum, Stanko — Culum, Stan  
 Cumaraswamy, Sarojini — Raventhiran, Sarojini  
 Cunningham, Wallace Francis — Cunyngam, Scruffie Wallace  
 Daintry, Clara — Lamb, Clara  
 Dam, Gia Phat — Chan, Tommy  
 Danahy, Terri-Ann Elizabeth — Danahy Brousseau, Terri-Ann Elizabeth  
 De Castro, Debora Gail — McFarlane, Debora Gail  
 De Luca, Maria — Tidona, Maria  
 De Sousa-Ferreira, Melissa Diana — Ferreira De Sousa, Melissa Diana  
 Derzekos, Anastasios — Malakos, Thomas  
 Desousa-Ferreira, Ana Paula — Ferreira De Sousa, Ana Paula  
 Desousa-Ferreira, Colette Marilyn — Ferreira De Sousa, Colette Marilyn  
 Dhatt, Manjit Kaur — Kalkat, Manjit Kaur  
 Diamantopoulos, Ioanna — Sloan, Ioanna  
 Diane, Ibrahim — Diane, Abraham  
 Dionne, Joseph Paul Romeo — Dionne, Raymond Romeo Paul  
 Dodd, Bridgette Jennifer — Fraser, Bridgette Jennifer  
 Doherty, Margaret Elaine — O'Doherty, Margaret Elaine  
 Doherty, Patrick William O'Connell — O'Doherty, Patrick William O'Connell  
 Doric, Stephan Robert — Dorich, Stephan Robert  
 Dosunmu, Al-Wahhab Adeleke Tolulope — Bankole, Adeleke Tolulope Schadrach  
 Dosunmu, Babatunde Abraham — Bankole, Abraham Tunde Gbolahan  
 Dosunmu, Noah Oluwatosin — Bankole, Noah Oluwatosin Olawale  
 Druyan, Evgeny — Druyan, Eugene  
 Dunn, Zachary Daniel — Maatman, Zachary Daniel  
 Duong, Vinh Quang — Wong, Vincent  
 El-Miari, Mohamed Khaled — El-Miari, Michael  
 Elliott, Kathleen Joy — Elliott-Guardiero, Kathleen Joy  
 Endersby, Joanne Ruth — Bennett, Joanne Ruth  
 Etherington, Bronka — Etherington, Verna Bernice  
 Everett, Lori-Anne Elizabeth — Stickland, Lori-Anne Elizabeth  
 Fan, King Him — Fan, Kevin King Him  
 Fan, Sui Chor — Fan, John Sui Chor  
 Farbin, Paul Kenneth — Commodore, Paul Kenneth  
 Filonov, Judith Emily — Reynolds, Kaylee Emily  
 Fjolkunnigr, Svanhildgarde — De Avio, Swan  
 Flood, Michelle Lee — Bourque, Michelle Lee  
 Foley, Teresa Dawn — Lucas, Teresa Dawn  
 Forsell, Susan Patricia — Arbouw, Susan Patricia  
 Forsyth, Janet De Wolfe — Conrad, Janet De Wolfe  
 Fraser, Kelly Lee — Fraser-Good, Kelly Lee  
 French, Cathy Lynn — Hall, Cathy Lynn  
 Frias, Natalia Andrea — Leon, Natalia Andrea  
 Fridman, Eli Michael — Friedman, Eli Michael  
 Gagnon, Giselle — Gagnon, Gisele  
 Galbraith, Sarah Lynn — Meating, Sarah Lynn  
 Galloway, Colleen Danelle — Honsberger, Colleen Danelle  
 Garamvolgyi, Rachel — Kapps, Rachel Maria  
 Garbacz, Gyongyi Marta — Sghaier, Gyongyi  
 Gauthier, Diane Marie — Frade, Diane Marie  
 Ghilazghi, Senait — Feradu, Senait  
 Giamettelo, Jeffrey Paul — MacDonald, Jeffrey Paul  
 Gilligan, Timothy Edward — Preston, Timothy Edward  
 Glover, Catherine Charmaine — Degruichy, Catherine Charmaine  
 Grant, Kelly Eilain — Leveque, Kelly Eilain  
 Gregson, Erin Kathleen — Pagan, Erin Kathleen Gregson  
 Grewal, Karamjit Kaur — Mann, Karamjit  
 Grice, Janet Mae — Foster, Janet Mae  
 Grover, William Douglas — Cornfoot, William Douglas  
 Grzemska, Iwona — Rynkowski, Iwona  
 Gubbels, Jody Lyn — Fufe, Jody Lyn  
 Guymer, Sandra Mae — Rawson, Sandra Jane  
 Hagop, Hachek — Sulaivany, Karwan Shaban  
 Hagop, Janet — Sulaivany, Jeene Shaban  
 Hagop, John — Sulaivany, Karzan Shaban  
 Hagop, Mariam — Sulaivany, Veene Shaban  
 Hagop, Shant Boghos — Sulaivany, Shaban Khalil  
 Halova, Eva — Kovarik, Eva  
 Han, Yong-Han — Han, Gary  
 Harney, Nicole Dorothy Louise — Harney, Nicole Lynn  
 Harrison, Sheri Lorraine — Colantonio, Sheri Lorraine  
 Hatfield, Margaret Patricia — Cadeau, Margaret Patricia  
 Hawes, Lyette Dawn — Coghlan, Lyette Dawn  
 Hellen, Jennifer Miriam — Baldachin, Jennifer Miriam  
 Henderson, Tania Louise — Henderson Kroman, Tania Louise  
 Henderson, Tania Lynne — Vander Ploeg, Tania Lynne  
 Ho, Jia Xin — Ho, Cindy Jia Xin  
 Hollett, Barbara Rosanne — Morgan, Barbara Rosanne  
 Hollis, Jericho Ryan — Bowmaster, Jeremy James  
 Hongell, Vuokko Onerva — Hongell, Hepatica Onerva  
 Hughes, Emily-Phyllis — Hughes-Haycock, Jan-Lee McKenzie  
 Hum, Shuk Yee — Buzzell, Shuk Yee  
 Husband, Michelle Kathleen — Ryckman, Michelle Kathleen  
 Hutchinson, Melodie Lisa — Poole, Melodie Lisa  
 Imbrogno, Debora — Ierullo, Debora  
 Iouchkovskaia, Olga — Micallef, Olga  
 Jackson, Carol Virginia — Ross, Carol Virginia Jackson  
 Jackson, Tilly May — Beaumont, Tilly May  
 Jarvis, Allison Belinda — Beauchamp, Allison Belinda  
 Jauch, Jeff Thomas — Bogar, Jeffrey Thomas  
 Johnson, Margaret Anne — Bisson, Margaret Anne  
 Johnson, Susan Earline — Cousineau, Susan Earline  
 Kadlec, Chad David — Mazerolle, Chad David Kadlec  
 Kadlec, Troy Felix — Mazerolle, Troy Felix Kadlec  
 Kelloway, Brittany Lee — Boland, Brittany Lee  
 Kerr, Ernestine Beatriz Calingo — Knight, Risa  
 Keyes, Yvette Ann — Money, Yvette Ann  
 Khilevich, Michelle Doreen — Wise, Michelle Doreen  
 Khoshaaba Amanowel, Sunita — Khosho, Sunita  
 Kloosterman, Julia Lynne — Carlson, Julia Lynn Marie  
 Knowles, Kimie-Sue — Noseworthy, Kimie-Sue  
 Koichopolos, Helen — Halkias, Helen  
 Koopman, Darlene Marie — Walz, Darlene Marie  
 Krasowska, Katarzyna — Zeglen, Katarzyna  
 Krause, Suzanne Michelle — McCreary, Suzanne Michelle  
 Kuntz, Angela Dawn — Fritz, Angela Dawn  
 Kuzminska, Malgorzata Barbara — Cybin, Malgorzata Barbara  
 Kwan, Wang Lok — Kwan, Brian Wang-Lok  
 Kwan, Wang Yu — Kwan, Andy Wang-Yu  
 La, Hue Khanh — Phan, Hue Khanh  
 La Fonte, Kelli Deborah Lynn — Marshall, Kelli Deborah Lynn  
 Lai, Estelle Marie — Ennis, Estelle Marie  
 Laiken, Janna Shari — Krieger, Janna Shari  
 Landry, Stephanie Ginette — Michel, Stephanie Ginette  
 Lau, Shuk Ying — Lau, Annie Shuk-Ying  
 Loughton, Jennifer Lynne — Pilcher, Jennifer Lynne  
 Lazaroff, Jacob Kieran — Teufel, Jacob Kieran  
 Lee, Donna — Gandall, Donna  
 Leppek, Ashley Harold — Reinhart, Ashley Harold  
 Lettress, Catherine May — Lettress-Jones, Catherine May  
 Levesque, Tammy Irene Noella — Morin, Tammy Irene Noella  
 Levesque, Timmy Louis Daniel — Morin, Timmy Louis Daniel  
 Li, Dapeng — Li, Franklin Dapeng  
 Lin, Li-Wei — Young, Li-Wei  
 Long, Donald — Long, Ronald Gerald  
 Luong, Chi Vi — Sam, Eric Chi Vi  
 MacDonald, Jesse William Stuart — Small, Jesse  
 MacDonald, John Allen Stuart — Small, John Junior  
 MacDonald, Natasha Lynn Diane — Small, Natasha Lynn Diane  
 Maciag, Donna Lynn Marie Therses Pauline — Doucette, Donna Lynn Marie Therses Pauline  
 MacIntyre, Ann Elizabeth — Mackende, Ann Elizabeth  
 MacIntyre, Elekes Marie Alayna — Mackende, Elekes Marie Alayna  
 Magpantay, Virginia Guce — Ruta, Virginia Guce  
 Mahant, Karmjit Singh — Kajla, Karmjit Singh  
 Marcaida, Charlotte Buenviaje — Velasco, Charlotte Marcaida  
 Martell, Brenda Leah — Reiley, Brenda Leah  
 Martin, Louise Marie Mariette — Rich, Louise Mariette  
 Maurin, David Gilbert — Maurin Munroe, David Gilbert  
 Maurin, Genevieve — Maurin Munroe, Genevieve Ann  
 Mayzik, Marie Noella Jo-Anne — Small, Marie Noella Jo-Anne  
 Mazerolle, Mary-Lise — Mazerolle, Lise Anne Marie  
 Mazrui, Mohamed Mas-Ud — Shaqsy, Mohamed Mas-Ud  
 McCann, Scott Christopher — McCann Sharp, Scott Christopher  
 McCracken, Kristy Lynn Marie — Brazeau, Kristy Lynn Marie  
 McCracken, Kyle David John — Brazeau, Kyle David John



McLeod, Dionne May — Walker, Dionne May  
 McCracken, Craig Oliver Charles — Brazeau, Craig Oliver Charles  
 McGrath, Michael Thomas — Alexander, Michael Taozeus  
 McLean, Milton James — MacLean, Milton James  
 McLeave, Alison Jane — Cyster, Alison Jane  
 McManamy, Bonnie Marie — Nyp, Bonnie Marie  
 McNeice, Lori Elizabeth — Ramer, Lori Elizabeth  
 Melanson, Betty Lou Janice — Wight, Betty Lou Janice  
 Mellish, Lenard Michael — Stuart, Michael Lenard  
 Meloche, Christine Marie — King, Maryanne Maghekan  
 Michie, Andrea Karen Margot — Earle, Andrea Karen Margot  
 Milne, Margaret Ellen — Booth, Margaret Ellen  
 Moniz, Matilde Da Conceicao Pimentel — Piques, Matilde Da Conceicao Pimentel  
 Montour, Brandon Taylor — MacTavish, Brandon Taylor  
 Mosher, Donna June — Bruni, Donna June  
 Moyen, Barbara Lorette — Gornall, Barbara Lorette  
 Mullan, Luke John — Ciere, Luke John Mullan  
 Munro, Rosa Agatha — Hassan, Rosa Agatha  
 Murray, Brianscott — O'Doherty, Brian Scott  
 Ndikumana, Edmond — Kakudji Mbavu, Edmond  
 Newman, Katelyne Anne — Pereira, Katelyne Anne  
 Newman, Tammy Leigh — Pereira, Tammy Leigh  
 Newton, Kristin Anne — McLean, Kristin Anne  
 Niemczyk, Elzbieta — Niemczyk, Elizabeth  
 Nita, Elisabeta — Caran, Elisabeta  
 Ochowiak, Christine — Ochowiak, Krystyna Maria  
 Odeyemi-Dosunmu, Temitope Sandra Atinuke — Bankole, Temitope Sandra Atinuke  
 Ouseph, Charles Varkey — Ouseph, Charles  
 Paddock, Karen Ann — Taylor, Karen  
 Paetkau, Sidney Quirk — Gray-Paetkau, Sidney Quirk  
 Panacheese, Lilian Rose — Southwind, Lilian Rose  
 Papp, Barbara Rose — Oostwouder, Barbara Rose  
 Paramanathan, Kalaivani — Balakumar, Kalaivani  
 Park, Seung Hee — Park, Kristen Seung Hee  
 Parker, Ashton Knight — Setman, Steven Maverick Micheal  
 Patrick, Stephanie Lynn — Troglitic, Stephanie Lynn  
 Pelaccia, Elisa — Di Blasio, Elisa  
 Peneda Rodrigues, Lucia Maria — Araujo, Lucia Maria  
 Penhale, Carol Ann — Penhale-Orovic, Carol Ann  
 Perales, Javier Juan — Perales, Xavier Jay  
 Periard, Stephane — Sarazen, Stefan  
 Peringer, Brenda Frances — Lanfranco, Brenda Tabone  
 Persad, Angie Vashti — Shazaban, Angie Vashti  
 Peskett, Trevor Sidney — Swindells, Trevor Sidney  
 Petrounevitch, Stanislav — Nevski, Stan  
 Pitman, Marion Claire — Cooper, Marion Claire  
 Poirier, Chantal Marie Micheline — McDonald, Chantal Marie Micheline  
 Powell, Joan Arlene — Latchford, Joan Arlene  
 Prasada, Anjali Sabina — Wellard, Anjali Sabina  
 Puvanthiran, Nanthini — Nagulendran, Nanthini  
 Radivojevic, Dragana — Sivic, Dragana  
 Rajaratnam, Kamaladevi — Nimalakanthan, Kamaladevi  
 Ramasamy, Tharmakantha — Thevathasan, Tharmakantha  
 Ramkhalawan, Pearl Florence — Ramkhalawan, Malini  
 Rawn, Rebecca Jo Ann — Thuss, Rebecca Jo Ann  
 Reader, Theresa Marie — Do Couto, Theresa Marie  
 Reibenbach, Michael Hale — Rein, Michael Hale  
 Ritchie, Kelly MacDonald — MacDonald, Kelly  
 Roblin, Carla Diane — Roblin Pryce, Carla Diane  
 Ruckpaul, Janet Elizabeth — Ruckpaul Adler, Janet Elizabeth  
 Salopek, Margo Elaine — Van Der Touw, Margo Elaine  
 Sampaleanu, Maria-Valentina — Sampaleanu, Nina Maria Valentina  
 Sarimazi, Garo Garry — Sarmazian, Garo Garry  
 Schmidt, Teresa Heidi — Sarazen, Heidi Tess  
 Sebok, Cynthia Eva — Croteau, Cynthia Eva  
 Selem, Azeib — Zere, Andnet Azeib  
 Selvarajah, Gowrymathy — Sivanathan, Gowrymathy  
 Serafin, Andrzej — Serafin, Andrew  
 Sharma, Veena — Sharma, Natasha  
 Shehyn, Joseph Gary — Jones, Garry  
 Shouldice, Kimberley Elizabeth — Shouldice, Kymberley Elizabeth  
 Singh, Deepa Ranjit Kaur — Jordan, Rebecca Deepa  
 Smith, Sarah Christina — Smith-Pautler, Patrick Joseph

Smith, Shannon Lee — Bouchard, Shannon Lee  
 Soltani, Zahra — Rezad, Sara  
 Soor, Avtar Singh — Surti, Avtar S.  
 Soor, Baldeep — Surti, Baldeep K.  
 Soor, Harpreet — Surti, Harpreet K.  
 Soor, Taran Jeet — Surti, Taranjeet S.  
 St. Hill, Karen Angella — St. Hill-Mitchell, Karen Angella  
 Stearns, Katherine Elizabeth — Stearns-Sheffer, Katherine Elizabeth  
 Steward Heen, Jose Luis — Stewart, Rysen Luis  
 Stewart, Everold Wayne — Stewart, Shakur Wayne  
 Tam, Wendy Wai-Sau — Brown, Wendy Wai-Sau  
 Taylor, Kirsten Andrea — Guidotti, Kirsten Andrea  
 Tchiloemba, Ferdy-Benjamin — Bakana, Ferdy  
 Tereshyn, Andrea Beth — Clark, Andrea Beth  
 Thompson, Eric Boyd — Gonet, Eric Boyd  
 Thomson, Rachel Jane — Flowers, Rachel Jane  
 Tilston, Richard Theodore Thomas — Miller, Richard Theodore  
 Tranchemontagne, Thomas Morris — Thomas, Maurice Joseph  
 Tutecky, Christopher John — Montgomery, Christopher John  
 Uffe, Martin Allan — Sorensen, Martin Allan Uffe  
 Ungria, Elenita P. — Lalicon, Elenita P.  
 Unza, Elizabeth Ranole — Cacapit, Elizabeth Ranole  
 Vandervoort, Kimberly Jean — Sharpe, Kimberly Jean  
 Vanherk, Pamela Jennifer — Poste, Pamela Jennifer  
 Vastino-Wheeler, Kimberlee Theresa — Vastino, Kimberlee Theresa  
 Velacich, Ashley Michelle — Crawford, Ashley Michelle  
 Verge, Joan Arlene — Shaw, Joanie Arlene  
 Visintainer, Micheal David Christopher — Minnie, Micheal David Christopher  
 Vladislavova, Kristina — Armani, Christina  
 Weston, Charlene Marie — Clucas, Charlene Marie  
 Whaley, Colleen Dawn — Schick, Colleen Dawn  
 Whitmore, Alexa Ruth — Barrie, Alexa Ruth  
 Wiebe, Maria Irene — Varnam, Maria Irene  
 Wignall, Charmayne Albertha Anastasia — Barker, Charmayne Albertha Anastasia  
 Willson, Natasha Marie — Thatcher, Natasha Marie  
 Wilson, Alan Michael — Bowman Wilson, Alan Michael  
 Wilson, Jennifer Anne — Abbott, Jennifer Anne  
 Woldeyes, Yeshihareg Asrat — Gebre, Genet  
 Wong, Mo Kam — Wong, Catherine Mo-Kam  
 Woodward, Marlene Lorraine — Belrose, Marlene Lorraine  
 Yeung, Pamela Ming Li — Yeung, Agatha  
 Yu, Yong-Jie — Yu, Kevin Yong Jie  
 Zamora, Arlene F. — Caringal, Arlene F.  
 Zelyuk, Maia — Wynn, Maia  
 Zhou, Rong — Zhou, Christine Rong

INDIRA SINGH,  
 Deputy Registrar General

(6096) 48

NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending October 10, 1997. The listing below shows the previous name followed by the new name.

AVIS EST DONNÉ PAR LES PRÉSENTES que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 10 octobre 1997. La liste ci-dessous indique les anciens noms suivis les nouveaux noms.

Al-Asali, Sabah — Aliyar, Sabah  
 Al-Bazi, Shwan Edwer — Al-Bazi, Shawn Edwer  
 Aldred, Jason Kenneth — Kenel, Jason Kenneth Aldred  
 Aldred, Jo-Ann Elizabeth — Kenel, Jo-Ann Elizabeth  
 Aldred, Kaitlin Louise — Kenel, Kaitlin Louise Aldred  
 Aldred, Kendra Leigh — Kenel, Kendra Leigh Aldred  
 Almeida, Sandy Maria — Almeida-Tukeli, Sandy Maria  
 Antonio, Ruby D. — Antonio-Pitocco, Ruby D.  
 Argentino, Heather Gay — Murphy, Heather Gay  
 Artinian, Anni — Karadjian, Anni  
 Ataw, Bibi Halima — Deen, Bibi Halima  
 Austen, Suzanne Jane — Weisberg, Suzanne Jane  
 Awerbuck, Carolyn Beth — Nyiti, Carolyn Beth  
 Badder, Daryl James — Landuyt, Daryl James  
 Baek, Soon Hee — Chassay, Soon Hee



- Ball, Trina Annette — Nowak, Trina Annette  
 Beanish, Tina Marie — O'Malley, Tina Marie  
 Belman, Bailey Ilene — Daniels, Bailey Ilene  
 Bennett, Tina Louise — Miller, Tina Louise  
 Benson, Victoria Alexandra — Ally, Victoria Alexandra  
 Bergsma, Wendy Elaine — Howe, Wendy Elaine  
 Beveridge, Carmen Dawn — Noseworthy, Carmen Dawn  
 Binkley, Kimberly Elizabeth — Carty, Kimberly Elizabeth  
 Bisailion, Jessica Elizabeth — Towsley, Jessica Elizabeth  
 Bishop, Jill Allison — Leonard, Jill Allison  
 Bivand, Emily Elizabeth — Thurgood, Emily Elizabeth  
 Bodzak, Ewa — Zolis, Ewa  
 Borondo, Grace Sarion — Lacucuas, Grace Sarion  
 Bourgouin, Joseph Martin — McMahon, Joseph Martin  
 Bryan, Laura Leigh MacVicar — Weech, Laura Leigh MacVicar  
 Buscemi, Giovanna — Bisceglia, Giovanna  
 Butler, Gloria Ann — Powell, Gloria Ann  
 Carter, Yvonne Irene — Dimitroff, Yvonne Irene  
 Cassidy, Virginia Anne — Stewart, Virginia Anne  
 Castillo, Carmelita — Campos, Carmelita  
 Castilloux, Ashley Amanda Angel — Larocque, Ashley Amanda Angel  
 Castro, Rhmalynne Eleccion — Calapini, Rhmalynne Eleccion  
 Cayley, Barbera Marie — Huber, Barbera Marie  
 Chae, Jung Wan — Lee, Jung Wan  
 Chafe, Heidi Michele Starr — Atikian, Heidi Michele Starr  
 Chan, Mi Tak — Chan, Ada Mi Tak  
 Chan, Sau Lin Winnie — Tam, Sau Lin Winnie  
 Chang, Bernice Tan — MacVicar, Bernice Tan  
 Charles, Wilma Eleanor — Mulrain, Wilma Eleanor  
 Chellakily, Ahilandanayahi — Chelvendra, Ahila  
 Chen, Peng-Yu — Chen, Jivy Peng-Yu  
 Chen, Wei-Yu — Chen, Ben Wei-Yu  
 Cheng, Chien Chao — Cheng, Samuel Chien-Chao  
 Cheng, Chien Sheng — Cheng, Horace Chien-Sheng  
 Cheng, Ching Yung — Cheng, Jim Ching-Yung  
 Cheng, May Fun — Cheng, Mabel May-Fun  
 Cheong, Chi-Hei — Cheong, Wallace Chi-Hei  
 Cheung, Tsui Ping — Cheung, Elaine Tsui Ping  
 Cheung, Ying Dee — Cheung, Ada Ying Dee  
 Chin, Josephine Maria — Huang, Josephine Maria  
 Choi, Elaine Soon — Kilmer-Choi, Elaine Soon  
 Chow, Gin-I — Chow, Gic  
 Clark, Elizabeth Jean — Dennis, Elizabeth Jean  
 Clarke, Michael Robert — Goreing, Michael Robert  
 Clutton, Amy Danielle — Allen, Amy Danielle  
 Clutton, Tyrone Jack — Allen, Tyrone Jack  
 Cockle, Wendy Pearl — Buick, Wendy Pearl  
 Cousineau, Roxanne Marie-Therese — Cousineau Posavad, Roxanne Marie-Therese  
 Coward, Wendy Elinor — Williams, Wendy Elinor  
 Crawford, James Alexander — Robson, James Alexander  
 Craymer, Lorraine Ann — Green, Lorraine Ann  
 Cristescu, Simona-Aurelia — Pascus, Simona-Aurelia  
 Cross, Bernice — Thompson, Bernice  
 Cuenco, Maria Charmie Anglo — Onate, Maria Charmie  
 Czupryn, John — Ozel, John  
 Da Nova, Ana Paula Silva — Battenberg, Ana Paula Silva  
 Daniel, Amy Brooke — Caughy, Amy Brooke  
 Daniel, Anthony Terence Kent — Kent, Anthony  
 Daniel, Sharon Candy — Flash, Sharon Candy  
 Dann, Kimberly Anne — Rodrigues, Kimberly Anne  
 David, Jhaine Dela Cruz — Figueroa, Jhaine Dela Cruz  
 De Caluwe, Jenny Mary Juliana — Decaluwe-Tesiorowski, Jenny Mary Juliana  
 De Coteau, Josephine Osulia — De Coteau-Nedd, Josephine Osulia  
 Dean-Dobosh, Jenifer Ann — Dean, Jenifer Ann  
 Degg, Christine Anne — Tyson, Christine Anne  
 Dennis, Barbara Joyce Mary — Malach, Barbara Joyce Mary  
 Dequanne, Brigitte Patricia — Kent, Brigitte Patricia  
 Derusha, Kimberley Lynn — Edgar, Kimberley Lynn  
 Diosay-Entrata, Dinia Cabial — Entrata, Dinia Cabial  
 Djigeris, Alecsander Atanasios — Atanasoff, Alecsander  
 Dmitriev, Viatcheslav — Wolf, George Serge  
 Dobos, Veronica — Noaghui, Veronica  
 Dommasch, Pauline — Kozic, Pauline  
 Donovan, Samantha Julia — Lacroix, Samantha Julia  
 Douglas, Carolyn Dawn — Bisignano, Carolyn Dawn  
 Drapeau, Genevieve — Cumpson, Genevieve  
 Dufault, Marie Suzanne Andree — Jerbi, Marie Suzanne Andree  
 Duffy, Lorraine Gwendolyn — Duffy, Lara Lorraine  
 Duggan, Helen Patricia — Duggan, Patricia Alexandra  
 Dumontet, Robin Audrey — Dumontet-Yaxley, Robin Audrey  
 Edwards, Judy Anne Veronica — Edwards-Maragh, Judy Anne Veronica  
 Ehrle, Gerd — Ehrle, Garret Otis Anton Mathias  
 Eid, Pascale — Jaklis, Pascale  
 Eilbrecht, Beatrix Monica — Lloyd, Beatrix Monica  
 Elmido, Catalina — Ambs, Catalina  
 Emmrich, Karyn Anne — Zess, Karyn Anne  
 Emoff, April Dawn — Benjamin, April Dawn  
 Fal, Jan — Fal, John  
 Fang, Jackson Chu Hsien — Png, Jack  
 Farinha, Anne Catherine — Abes, Anne Catherine  
 Farley, Andrea Lynne — Gauthier, Andrea Lynne  
 Flutuel, Mariana Carmen — Nadoleanu, Mariana Carmen  
 Fortier, Patsy — Rainville, Patsy  
 Fortin, Jacqueline Mona Marie — Vassos, Jacqueline Mona Fortin  
 Francis, Vinnette — Newby, Vinnette  
 Francois, Joseph Berchmans — Berchmans, Francois Joseph  
 Fraser, Candice Jean — Goretzki, Candice Jean  
 Freeman, Wendy Rae — Tomlinson, Wendy Rae  
 Fudge, Kari-Lynn — Gray, Kari-Lynn  
 Fyfe, Richard Paul — Corvese, Richard Paul  
 Gaffield, Johanna Noel — Spaans, Johanna Noel  
 Gajadar, Hilda Irma — Gajadar-Cultess, Hilda Irma  
 Gajdos, Andrea — Butora, Andrea  
 Galloway, Tarah Nicole — Zarrabi, Tarah Nicole  
 Garbouz, Lioudmila — Najda, Lioudmila  
 Gaspar, Sandy Furtado — Mallia, Sandy Furtado  
 Gati, Anaheet — Sethna, Anaheet  
 Georgis, Tamara — Georgis Hasso, Tamara  
 Gewont, Ewa Stanislaw — Bzdyk, Ewa Stanislaw  
 Ghulam, Afnan — Al-Soultani, Afnan  
 Ghulam, Bann — Al-Soultani, Bann  
 Ghulam, Ghassan — Al-Soultani, Ghassan  
 Ghulam, Senan — Al-Soultani, Senan  
 Gibson, Shue Mun — Vincil, Shue Mun  
 Gifkins, Lorne Brian — Gifkins, Monica Rose  
 Gognavec, Christopher David — Newton, Christopher David  
 Gore, Wendy Jean — Ferri, Wendy Jean  
 Gower, Lisa Anne — Osanic, Lisa Anne  
 Gray, Kellianne Darlene — Hughson, Kellianne Darlene  
 Gregory, Cassandra Theresa — Campbell, Cassandra Theresa  
 Grischow, Jaymie Maureen — Berry, Jaymie Maureen  
 Grossman, David Benjamin — Wilson, David Benjamin  
 Gunson, Marilyn Reta Jean — Lemon, Marilyn Reta Jean  
 Haddad, Dema — Melhem-Hawchar, Dema  
 Haddad, Elias — Melhem-Hawchar, Elias  
 Hamilton, Lisa Marlene — Hamilton-Russell, Lisa Marlene  
 Handy-Harnois, Melissa Anne — Harnois, Melissa Anne  
 Haniff, Bibi Shaneza — Fisher, Bibi Shaneza  
 Hasham, Kaniz — Teja, Kaniz  
 Hastings, Terry-Lynn — Strain, Terry-Lynn  
 Hatala, Janina — Trojanowski, Janina  
 Hawke, Daljit Kaur — Rai, Daljit Kaur  
 Henderson, Maira Alves Dos Santos — Herenberg, Maira Alves Dos Santos  
 Hibbert, Kathleen Elizabeth — Ananny, Kathleen Elizabeth  
 Ho, Candy Wai Yee — Ho-Skye, Candy Wai Yee  
 Ho, Thi Phuong-Nam — Ho, Fianna Phuong-Nam  
 Hodgert, Cheryl Denise — Harmer, Cheryl Denise  
 Hossain, Ether — Moazzam, Karishma Ether  
 Howard, Archie James — Walker, Archie James  
 Hupe, Theodore William — Weise, Ted William  
 Huynh, Hoa Huu — Huynh, Kenneth Huu  
 Hyman, Wendy Ellen — Hyman Cohen, Wendy Ellen  
 Inthahack, Judy Lien — Le, Judy Lien  
 Ioannidis, Despina — Melohe, Despina  
 Ioussoufova, Dilara — Joseph, Delia  
 Izakel, Laura Armineh — Izakelian, Laura Armineh  
 Izakel, Lilit Anoush — Izakelian, Lilit Anoush



- Izakel, Vazken — Izakelian, Vazken  
 Jacobsen, Deborah Lea — Mallett, Deborah Lea  
 Jameel, Neuvart — Sulaivany, Hana Hamid  
 Janvier, Donny Anthony — Thivierge, Donald Anthony  
 Jay, Jennifer Elaine — Kilburn, Jennifer Elaine  
 Jobczyk, Marie Geraldine — Houston, Marie Geraldine  
 Jogeva, Slobodanka — Mills, Slobodanka  
 Johnson, Noreen Patricia — Sampson, Noreen Patricia  
 Jones, Wayne Edward — Edward, Wayne  
 Kandia, Easwaridevy — Krishnamoorthy, Easwaridevy  
 Kang, Eun-Young — Kang, Ester Eunyong  
 Kang, Min-Jung — Kang, Michelle Minjung  
 Katchaounis, George Andreou — Katsiaounis, George Andreou  
 Kathiresampillai, Komathy — Sureshkumar, Komathy  
 Kaye, Patricia Joan — Kilger, Patricia Joan  
 Keeling, Shirley Marie — Copping, Shirley Marie  
 Kelford, Carrie Lynne — Pitt, Carrie Lynne  
 Kennicle, Melissa Lianne — Juniper, Melissa Lianne  
 Kerr, Chrystal Anne Marie — Campbell, Chrystal Anne Marie  
 Keung, Yuk-Ling — Lai, Yuk-Ling  
 Killu, Sali — Killu, Sally  
 Kilmer, Richard Kevin — Kilmer-Choi, Richard Kevin  
 Kim, Nam-Hee — Kim, Sylvia Nam-Hee  
 Klaver, Theresa Christina — Humphries, Theresa Christina  
 Konstantinou, Jeanie — Theoharis, Jeanie  
 Kowk, Wing Yi — Kwok, Bethany Wing Yi  
 Krzywda, Karola — Lewczynski, Karola  
 Kubeszski, Albert Francis — Kubiseski, Albert Francis  
 Kumar, Margaret Marie-Louise — Pope, Margaret Marie-Louise  
 Kurij, John Walter — Kury, John Walter  
 Kwiatek, Sylwia Elzbieta — Kisielewski, Sylwia Elzbieta  
 Kwok, Wing Sum — Kwok, Fiana Wing Sum  
 Lacelle, Leopold Joseph Fernand — Lacelle, Leo-Paul  
 Joseph Fernand  
 Ladd, Mary Louise — Plante, Mary Louise  
 Lahaye Manzoni, Graciela Beatriz — Ransom, Graciela Beatriz  
 Lakunishok, Elaine — Laken, Elaine  
 Lam, Lok Ching — Lam, Dorcas Lok Ching  
 Lam, Yuk Shun — Lam, Terence Yuk Shun  
 Langille, Stephen James — Brooks, Stephen James  
 Langlois, Patricia Denise — Carr, Patricia Denise  
 Lanowski, Patryk — Hildebranski, Patryk  
 Lanthier, Martine Marie Nicole Nathalie — Carinci, Martine  
 Marie Nicole Nathalie  
 Lapierre, Brenda Mary-Ann — Blake, Brenda Mary-Ann  
 Larocque, Sonja Vanessa Roos — Friedrich, Sonja Vanessa Roos  
 Lechasseur, Marie Valerie Beatrice — Voyer, Marie Valerie Beatrice  
 Lee, Su-Fen — Lee, Rebecca  
 Lee, Trina Marie — Mitchell, Trina Marie  
 Lee, Wendy Susan — Lee-Flavell, Wendy Susan  
 Lee, Yuet-Wah — Lee, Sally Yuet-Wah  
 Lehman, Lisa Jennifer — Gaudet, Lisa Jennifer  
 Leidelmeijer, Kayla Janine — Kealey, Kayla Janine  
 Leidelmeijer, Natasha Danielle — Kealey, Natasha Danielle  
 Lenz, Viola — Gonzales, Viola  
 Leong, Kar-Kin — Leong, Philip K.  
 Leong, Sze-Chun — Leong, Cedric Sze-Chun  
 Leong, Sze-Nga — Leong, Cecilia Sze-Nga  
 Lepczynska, Krystyna Helena — Grodzicki, Krystyna Helena  
 Lesyk, Oxana Marianivna — Dytskiy, Oxana Marianivna  
 Levesque, Sonia — Gendron, Sonia  
 Licorish, Denise Tusca — Gilles, Denise Tusca  
 Liou, Alvin — Liou, Kai  
 Lipiec, Rajmund Stanislaw — Lipiec, Raymond Stanley  
 Long, Thoi Hung — Long, Caster  
 Long, Tu Lan — Ly, Tu Lan  
 Loo Yee, Catalina Loo — Scafiezzo, Catalina  
 Lopez Navarro, Nelda — Rizza Di Sardi, Nelda  
 Lue, Sandra Marie — Toy, Sandra Marie  
 Lukaczow, Joanna Regina — Laczny, Joanna Regina  
 Lumley, Jill Marie — Lumley Curran, Jill Marie  
 Ma, Wei — Ma-Ye, Wei  
 MacKinnon, Tammy Lynn — Douglas, Tammy Lynn  
 Mageed Nashed, Leesa Ashraf — Nashed, Lisa A.  
 Mak, Chi Lok — Mak, Adrian Chi Lok  
 Mak, Sum Yee — Mak, Rachel Sum Yee  
 Mak, Sun Chi — Mak, Sandy Sun Chi  
 Maksymchuk, Emma — Agoston Taylor, Emma  
 Malimonenko, Larissa — Day, Larissa  
 Malligarathy, Rajanayagam — Malligarathy, Sritharan  
 Mancilla, Loisa Aguilar — Carnegie, Loisa Aguilar  
 Maness, Murray Philip — Kewaquom, Murray Philip  
 Mansour, Hekmat Sobhi — Loutfi, Samia Beshara  
 Mansour, Matthew — Loutfi, Matthew Beshara  
 Mansour, Meena Marcos — Loutfi, Mina Beshara  
 Markovinovich, Susan Leslie — Taylor, Susan Leslie  
 Marler, Gabriela — Elias, Gabriela  
 Marshall, Rena Erma Alberta — Pegelo, Rena Erma Alberta  
 Martin, Lisa Louise Marie — Payne, Lisa Louise Marie  
 Martin, Lisa Marie — Tokuda, Lisa Marie  
 Maude, Tracey Michelle — Hewitt, Tracey Michelle  
 McCarthy, Melanie Leigh-Anne — Potvin, Melanie Leigh-Anne  
 McKenzie, Mary-Ann Louise — Nutt, Mary-Ann Louise  
 McLean, Lesley Anne — Shaddock, Lesley Anne  
 McGuire, Robert Clinton — Davidson, Robert Clinton  
 McKenzie, Jason Aldane Jordan — Jordan, Jason Aldane McKenzie  
 McPhee, Mark Franklin — Nichols, Mark Franklin  
 Mead, John Thomas — Mead, Jack Thomas  
 Mendoza Rodriguez, Gladys Josefina — Li, Gladys Josefina  
 Mercadante, Caterina — Shemavonian, Caterina  
 Miller, Tamara Elizabeth — Hibrant, Tamara Elizabeth  
 Mirza, Salma — Fusaro, Salma  
 Misola, Yvette Mateo — Awa, Yvette Mateo  
 Mohammed, Chris — Abraham, Chris  
 Monita, Deborah Marie — Lawrence, Deborah Marie  
 Montoya, Jose Humberto — Aquilar Montoya, Jose Humberto  
 Moreno, Anthony Byron — Perez, Anthony Byron  
 Moyen, Darius George David — Gornall, Cheech Brand  
 Muller, Mark Edward — Strain, Mark Edward Kenneth  
 Mulvihill, Kimberley Ann — Milliard, Kimberley Ann  
 Murgel, Mary Majella — Young, Mary Majella  
 Mylvaganam, Mankayakarasi — Nithiananthan, Manga  
 Nasato, Laura Cicilia — Buosi, Laura Cicilia  
 Nebone, Daniel Patrick — Powell, Dante Daniel Patrick  
 Nelson, Kimberley Dawn — Brousseau, Kimberley Dawn  
 Nelson, Mark Gerald — Nelson, Marcac Gerald  
 Ng, Ping-Hin — Ng, David Ping-Hin  
 Ng, Yee Ha Doris — Wan, Doris Yee-Ha  
 Nguyen, Thi Thu Ha — Nguyen, Carolyn  
 Nissanka, Don Xaine — Billy, Don Xaine  
 Nithiananthan Nadarajan, Jathuson — Nithiananthan, Jathuson  
 Nithiananthan-Nadarajan, Sugeetha — Nithiananthan, Sugeetha  
 Nodel, Kalman — Nodel, Karl  
 Noga, Krystyna — Rewkowski, Krystyna  
 Nowak, Sylvia — Maka, Sylvia  
 Nowobilska, Lidia — Fuks, Lidia  
 O'Halloran, Linda Marie — O'Halloran, Linda Rosemarie  
 Oenema, Leah Angela — Charlesworth, Leah Angela  
 Olson, Gwenneth Elaine — Weller, Gwenneth Elaine  
 Oswald, Susan Marie — Knopp, Susan Marie  
 Pana, Marin Leonidovich — Vyrlanovitch, Marin  
 Pana, Olga Leonidovna — Vyrlanovitch, Olga  
 Panchavarnam, Jeba Kumar — Kumar, Panchavarnam Jeba  
 Paquette, Marie Louise Joanne — Chevrier, Marie Louise Joanne  
 Parisien, Marie Simone Chantal — Bruneau, Marie Simone Chantal  
 Pathirana, Sadisha Dilruwani — Perera, Sadisha Dilruwani  
 Patterson, Elizabeth Laura — Agensky, Elizabeth Laura  
 Peace, Melanie Alison — Accursi, Melanie Alison  
 Pereira Soares, Luisa Maria — Pereira Soares Fraser, Luisa Maria  
 Perovich, Milica — Tempest, Milica  
 Perreault, Marie France Isabelle Jeanne — Montgomery,  
 Marie France Isabelle Jeanne  
 Perry, Garyth Luke Craig — Goudie, Garyth Luke  
 Pervan, Jessica Dawn June — Ehmman, Jessica Dawn June  
 Phay, Khouch — Phay, Khouch Katherine  
 Phillion, Marguerite Marie Diane — Chiarenza, Marguerite  
 Marie Diane  
 Pidgeon, Dean Richard — Flanagan, Dean Richard  
 Plant, Amanda Ann — Coburn, Amanda Ann  
 Plant, Michael Douglas — Coburn, Michael Douglas  
 Poklewski, Ewa Malgorzata — Poklewska-Kozell, Ewa Malgorzata  
 Ponnusamy, Maha Lakshmi — Antony, Maha Lakshmi



- Prasad, Malti Devi — Lal, Malti Devi  
 Purgavie, David Gage — Knox, Samuel Gage  
 Puskaric, Michael Alexander — Alexander, Michael Puskaric  
 Puzio, Krystyna — Migon, Krystyna  
 Rainey, Riley Richmond — Lowe-Nicolaassen, Riley Richmond  
 Rajaratnam, Alphonsa — Newton, Alphonsa  
 Rajasingham, Marina Nimmathy — Navaratnam, Marina Nimmathy  
 Ramdihall, Rabina — Barrett, Rabina  
 Rennie, Karleen Ann — Ross, Karleen Ann  
 Rheume, Marie Simone Micheline — Lavoie, Marie Simone Micheline  
 Rhee, Robert Yoonchol — Sheen, Michael  
 Ritchie, Harvey Victor — Richer, Harvey Victor  
 Robichaud, Liana Leigh — Jenkins, Liana Leigh  
 Robinson, Timothy John — Hussain, Adeel Timothy  
 Roshan, Ali — Truaxe, Brandon Carrano  
 Rotstein, Marcia-Joy Sandra — Evans, Maracia-Joy Sandra  
 Roy, Yvette Michelle — Dier, Yvette Michelle  
 Ruston, Heidi Elizabeth — Churchill, Heidi Elizabeth  
 Saavedra Ventura, Nancy Yamileth — Mourra Ventura, Nancy Yamileth  
 Sadaf, Safia — Nasir, Safia  
 Saini, Rupinderjit Kaur — Bhela, Rupinderjit Kaur  
 Saini, Surjit Singh — Bhela, Surjeet Singh  
 Salim, Hanouf Suleman — Salem, Hanouf Suleman  
 Salim, Omer — Salem, Omer Suleman  
 Salim, Suleman Arabi — Salem, Suleman Arabi  
 Samaranayake, Ian Stephens — Stephens, Ian Samaranayake  
 Santillan, Miriam Susana — Scott, Susan Madison  
 Sargent, Toni Michelle — MacMillan, Toni Michelle  
 Saso, Kellie Cathleen — Meilleur, Kellie Cathleen  
 Sassi, Sandra — Chiodo, Sandra  
 Saucier, Mary Albino Rose — Saucier, Marie Rose  
 Saunderson, Anne Montgomery — Keddie, Anne Montgomery  
 Savedia, Sheila Marie — Cayabyab, Sheila Marie  
 Savoiaro, Maria Amparo — Balsas, Maria Amparo  
 Schnepf, Nicole Therese — Hansen, Nicole Therese  
 Schreiber, Lutecia Evelyn — Publuske, Lutecia Evelyn  
 Scott, Lisa Denise — Goodmurphy, Lisa Denise  
 Seeley, Suzanne Marie — Scott-Seeley, Suzanne Marie  
 Seto, Coral — Komor, Coral  
 Severn, Ramie Gordon — Robbins, Ramie Gordon  
 Sewell, Sandra Marie — Lofters, Sandra Marie  
 Sharma, Munish — Garcia, Nicolas M. S.  
 Sheregy, Ekaterina — Sheregy, Kathy  
 Sheregy, Giora — Sheregy, George  
 Shim, Bofe — Shen, Julie Bofe  
 Shim, On — Shen, David On  
 Siluvaitasan, Anne Cascogini — Christuraja, Anne Cascogini  
 Simurda, Susan Mary — Weighell, Susan Mary  
 Singer, Barbara Ellie — Singer-Nudelman, Barbara Ellie  
 Singh, Barbara Indira — Lo, Barbara Indira  
 Singh, Carita Lavana — Williams, Carita Lavana  
 Singh, Dalwinder — Sahota, Dalwinder Singh  
 Singh, Danny Daniel — Austin, Danny Stewart  
 Singh, Onkar — Sandhar, Onkar Singh  
 Singh, Swarn Kaur — More, Swarn Kaur  
 Sivapiragasam, Kavitha — Namasivayam, Kavitha  
 Sivathasan, Sasi — Langeshsaran, Sasi  
 Skropolithas, Georgia Evangelia — Skropolis, Jeanne Evangelia  
 Smith, Dawn Michelle — Chandelier, Dawn Michelle  
 Smith, Karen Marguerite — Kirkland, Karen Marguerite  
 Smith, Kelli Lorraine — Young, Kelli Lorraine  
 Soegeng, Catherine — Yap, Alexys Se Ung  
 Soegeng, Caven Yaphet — Yap, Athenea Se Ting  
 Sovsun, Adrianna Petrovna — Ciomkalo, Adrianna Petrovna  
 Spears, Glenn Barton — May, Glenn Barton  
 Spence, Tania Marie Nadine — Hodgson, Tania Marie Nadine  
 St. John, Clayton Wilfred — Fuchs, Clayton Wilfred  
 St. John, Mary-Lynn — Fuchs, Mary-Lynn  
 Stepak, Marci Raizel — O'Connor, Marci Raizel  
 Stopford, Jennifer Ann — Stopford-Goodstadt, Jennifer Ann  
 Storto, Luigi Luciano — Tucci, Louie Dominic Joseph  
 Swift, Fiona Ruth Grace — Lee, Fiona Ruth Grace  
 Tabara, Lamis — Chahin, Lamis  
 Talsma, Sharon Grace — Strain, Sharon Grace  
 Tang, Lang Young — Takahara, Lang Young  
 Tayag, Romina Dizon — Hossain, Romina Dizon  
 Tcheng, Erica Ching-Fun — Ng, Erica  
 Tenny, Michael Raymond — Presley, Elvis  
 Theakston, Heather Lynn — Moffett, Heather Lynn  
 Thenuwara, Inoka Sawitri — Gunaratne, Michael Rohan  
 Thibideau, Susan Marie — Ross, Susan Marie  
 Thomas, Ann Louise — Gorman, Ann Louise  
 Tobok, Lea — Vainer, Lea  
 Tossounian, Lema — Katsiris, Lema  
 Towegejick, Suzanne Marie — Collins, Suzanne Marie  
 Trang, Hoa Kim — Trang, Rosaline  
 Turner, Jennifer Lynn — Shaver, Jennifer Lynn  
 Turpin, Melanie — Ardouin, Melanie  
 Tytenych, Nicole Gena — Lewis, Nicole Gena  
 Vaillancourt, Brenda Mary — Morissette, Brenda Mary  
 Vandenbogaerde, Jordan Thomas — Cook, Jordan Thomas  
 Vansickle, Gail Elizabeth Patricia — Vansickle, Gail Anderson Elizabeth  
 Vardy, Jason Kenneth Earl — Winters, Jason Kenneth Earl  
 Velupillai, Vathani — Sirranjan, Vathani  
 Vi, Abby — Wai, Abby  
 Vi, Thi Kieu — Wai, Alicia  
 Victor, Agnes Jennifer — James, Agnes Jennifer  
 Visvalingam, Varathalingam — Thayan, Visvalingam  
 Viveiros, Diane Marie — Litt, Diane Marie  
 Voinea, Anda — Negulescu, Anda  
 Voorthuyzen, Lisa Marie — Feasey, Lisa Marie  
 Walkden, Francis Frederick — Wilkins, Francis Frederick  
 Wan, Pok Man Anthony — Wan, Anthony Pok-Man  
 Wan, Wai Chuen Andrew — Wan, Andrew Wai-Chuen  
 Wang, Lei — Wang, Rock Lei  
 Wease, Katrina Anne — Kimmerly, Katrina Anne  
 Weinroth, Catalina Andreea — Weinroth, Shauna Nicole  
 Weinstein, Elana Marlaine — Palmer, Elana Marlaine  
 Whetter, Kevin Michael — Ross, Kevin Michael  
 Wilkes, Paula Lynn — Teigen, Paula Lynn  
 Will, Ailix Rosalie — Naworynski, Alix Rosalie  
 Williamson Clark, Christine Mercynth — Williamson, Christine Mercynth  
 Wilson, Lisa Anne-Marie — Hauss, Lisa Anne-Marie  
 Wine, Saba Yohannes — Tesfai, Saba  
 Wong, Bo Bo — Lau, Bo Bo  
 Wong, Man Hoi — Wong, Lewis Man-Hoi  
 Woodrow, Leslie Michelle — Roe, Leslie Michelle  
 Wright, Brenda Marie — Percy, Brenda Marie  
 Wright, Karen Elizabeth — Freeland, Karen Elizabeth  
 Xu, Haoqiang — Xu, Hoking  
 Yaghoubi Kouhestani, Mohammad Taghi — Yacobi, Shawn  
 Yakoub, Lamyaa — Killu, Lamyaa  
 Yashar, Sohrab — Alipour Azadeh, Jaber  
 Yontcheva-Vatchourova, Elena — Houbenov, Elena  
 York, Allison Michelle — Aidelman, Allison Michelle  
 Youssef, Yasser — Youssef, Taha  
 Zarifeh, Rana — Boules, Rana  
 Zhao, Huiquan — Zhao, Hugh Huiquan  
 Zhao, Miaoran Moran — Zhao, Myron Miaoran  
 Zinger, Steven William — Buschert, Steven William

INDIRA SINGH,  
 Deputy Registrar General

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NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending October 17, 1997. The listing below shows the previous name followed by the new name.

AVIS EST DONNÉ PAR LES PRÉSENTES que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 17 octobre 1997. La liste ci-dessous indique les anciens noms suivis les nouveaux noms.

Ahmed, Dhol Farhan — Ahmed, Rugiya Farah  
 Ahmed, Dhuh Farhan — Ahmed, Hawa Farah  
 Ahmed, Faduma Farhan — Ahmed, Hamdi Farah  
 Ahmed, Faisa Farhan — Ahmed, Fowzia Farah



- Ahmed, Hussein Farhan — Ahmed, Hussein Farah  
 Ahmed, Kadar Farhan — Ahmed, Ahmed Farah  
 Ahmed, Lul Farhan — Ahmed, Marian Farah  
 Ahmed, Mulki Farhan — Ahmed, Asha Farah  
 Ahmed, Weris Farhan — Ahmed, Khadija Farah  
 Ahmed, Zahra Farhan — Ahmed, Zahra Farah  
 Alarie, Jacynthe Lynn — Dunphy, Jacynthe Lynn Marie  
 Ardito, Mary Ellen — Clarke, Mary Ellen  
 Bakker McClellan, Irene — Bakker, Irene  
 Baltazar, Elaine Landas — Alaguena, Elaine Landas  
 Batchilder, Dawn Paulette — Hayes, Dawn Paulette  
 Batherson-Johnston, Christopher Peter Daniel — Batherson, Christopher Peter Daniel  
 Bedwell, Tammy Elan — Tompkins, Tammy Elan  
 Bellmore, Laura Karen — Waigh, Laura Karen  
 Berry-Barkauskas, Annette Marie — Berry, Annette Marie  
 Bester, Laurel Anne — Crane, Laurel Anne  
 Bila, Oksana — Chved, Oksana  
 Billson, Adeena Marie — Pentland, Adeena Marie  
 Binotto, Natasha — Beaudoin, Natasha  
 Booker, David Matthew — Boyd, James Hugh  
 Borg, Leanne Sharon — Keogh, Genevieve Leanne Mary  
 Breau, Brandon Nicholas Timothy — Fyfe, Brandon Nicholas Timothy  
 Brown, Jennifer Kelly Hope — Heyland, Jennifer Kelly Hope  
 Bruckner, Lee Ann — Norquay, Lee Ann  
 Burnett-Williams, Eva Nora Mary — Burnett, Eva Nora Mary  
 Cadore, Ruthlyn Naomi Juliet — Cadore-Wilson, Ruthlyn Naomi Juliet  
 Campbell, Karen Michelle — Campbell-Prince, Karen Michelle  
 Cardenas, Leilanie Gacad — Cardenas, Leilanie Pagdilao  
 Carter, Ingrid Loric — Legros, Ingrid Loric  
 Chajczyk, Danuta Janina — Krompart, Diane Jane  
 Cheuk, San Anesthesia — Talip, San Anesthesia  
 Chung, Wai Man — Chung, Waiman Raymond  
 Clark, Paul Dylan — McKenna, Paul Clark Dylan  
 Clarke, Gail Louise — Clarke, Gayle Louise  
 Clarke, Jillian Lee — McDougall, Jillian Lee  
 Clissold, Julie Anne — Pascoal, Julie Anne  
 Conlon, Ruben Peter — Conlon, Robin Peter  
 Conway, Joshua Ernest David — Vickers, Joshua Ernest David  
 Cornwall, Deon Antoinette — Wright, Deon Antoinette  
 Craner, Sandra — Longe, Sandra  
 Dadabhai, Manefoucha — Dadabhai, Faeza  
 Darling, Michele Nicole — Hawkins, Michele Nicole  
 Davies, Christine Louise — Rushton, Christine Louise  
 De Grazia, Carmela Margherita — Militello, Carmela Margherita  
 Denis, Marie Lise Leona Natalie — Kok, Marie Lise Leona Natalie  
 Dinh, Thi Thoi — Dinh, Jessica  
 Dizon, Maria Antonia — De Jesus, Maria Antonio  
 Duarte Da Silva, Cidalia Maria — Duarte, Cidalia Maria  
 Duncan, Gina Patricia — Piet, Gina Patricia  
 Dutra, Aida Andrade — Carew, Aida Andrade  
 Elieff, Ashley Hope — Murphy, Ashley Hope  
 Elzner, Anna Katharina — Schaefer-Elzner, Anna Katharina  
 Erickson, Suzanne Kathleen — Cavanaugh, Suzanne Kathleen  
 Farah, Farhan Ahmed — Farah, Farah Ahmed  
 Faulds, Melanie Jane — Toulmin, Melanie Jane  
 Fenton, Mary Ray — Young, Mary Ray  
 Ferraz, Silmara Regina Rocha — Ferraz Pedrotti, Silmara Regina Rocha  
 Fetherston, Crystal-Lee — Law, Crystal-Lee  
 Finch, Ellen Hazel — Lavender, Ellen Hazel  
 Fitt, Debra Lorraine — Sarmazian, Debra Lorraine  
 Fontoura Da Cunha, Luzia — Fontoura, Luzia  
 Fridman, Henrietta Monieva — Kvint, Henrietta Monieva  
 Gaszynska, Danuta — Lusawski, Danuta  
 Giannakopoulos, Jean Martha — Creighton, Jean Martha  
 Giroux, Rosalie Elizabeth — Boudreau, Rosalie Elizabeth  
 Gonzales, Marry Honeylene Lubi — Gonzales, Marwin  
 Gordon, Risa Hyla — Amar, Risa Hyla  
 Green, Theresa Rose Mary — Green, Rosemary Theresa  
 Gruz, Ethan Michael — Klassen-Selberg, Ethan John  
 Gruz, Isaac Benjamin — Klassen-Selberg, Isaac Benjamin  
 Guidoni, Janice Elaine — McNally, Janice Elaine  
 Ha, Sookja — Ha, Susan Song  
 Halter, Gabriel Sidney — Halter, G. Sydney  
 Hare, Kathryn Margaret — Irwin, Kathryn Margaret  
 Harkishun, Dhanram — Raghunandan, Dhanram  
 Harrison, Denise Nicole — Maynard, Denise Nicole  
 Hart, Cassandra Shakti — Love, Katharine Angelina  
 Hausegger, Hilda Sarah — Grosvenor, Hilda Sarah  
 Hillier, Ashlee Elizabeth — White, Ashlee Elizabeth  
 Hoffman, Roberto Luis — Hoffman, Roberto James  
 Hogg, Lee Ann Rose — Rossiter, Lee Ann Rose  
 Iantorno, Anna Maria Sandra — Iantorno, Annamaria Sandra  
 Jagnarain, James Roger — James, Roger Steven Anthony  
 Jankiewicz, Ryszard Janusz — Jankiewicz Domator, Ryszard  
 Jeffries, Diane Marie — Jeffries-Otter, Diane Marie  
 Jhaji, Ranjit Kaur — Gill, Ranjit Kaur  
 Johal, Sandip Kaur — Gill, Sandip Kaur  
 Johnson, Phyllis Sylvia — Tarrant, Phyllis Sylvia  
 Johnston, Darlene Leslie — Morden, Darlene Leslie  
 Johnston, Lorraine Sarah — Batherson, Lorraine Sarah  
 Johnston, Michael James McNichol — Batherson, Michael James McNichol  
 Jozefowicz, Laura Diane — Oberwarth, Laura Diane  
 Juricev, Jelena — Vojinovic, Jelena  
 Keysari, Iris — Epstein, Iris  
 Khan, Zaheeda Begum — Coelho, Zaheeda Begum  
 Khatri, Dimple Devi — Gandhi, Dimple Devi  
 Kinsey, Miriam Beth — Keung, Miriam Beth  
 Kiss, Monika Judit — Molnar, Monika Judit  
 Komarewsewa, Oxana — Bednarz, Oxana  
 Kostic, Biljana — Popovic, Biljana  
 Kulikowska, Janina — Wiatr, Janina  
 Kumar, Ashok — Kumar, Jaya  
 Leclair, Erika-Shannon Lee — St. Denis, Erika-Shannon Lee  
 Ledoux Warner, Kristen Marie — Taggart, Kristen Marie  
 Lee, Kwang Han — Lee, Yoon-Young Howard  
 Lefrancois, Marie Kim Idella — Bartels, Marie Kim Idella  
 Leung, Cortina — Wu, Cortina  
 Lingerfelt, Angela Joy — Wolfe, Angela Joy  
 Lutak, Alicja — Czelusniak, Alicja  
 MacKenzie, Alexandrina Anna — Barker, Alexandrina Anna  
 MacKenzie, Joshua Allan — Barker, Joshua Allan  
 MacNeill, Tonya Marie — MacNeill Desormeaux, Tonya Marie  
 Mallon, Charlene Marie — Latorre, Charlene Marie  
 Mandamin, Vanessa Selena — Fedus, Vanessa Selena  
 Marceau, Marie Jeanne Therese — Couture, Marie Jeanne Therese  
 Mashford, Margaret Ann Rose — Mahoney, Margaret Ann Rose  
 Mathur, Anita — Sharma, Anita  
 Matzafleris, Anna-Joanna — Newman, Anna Joanna  
 Matzafleris, Apostole — Newman, Paul  
 Matzafleris, Zoe — Newman, Zoe  
 Maxelon, Sylvia Rose — Brennan, Sylvia Rose  
 McCallum, Hailey Erin — Esson, Hailey Erin  
 McGregor, Sheila Marie — Allen, Sheila Marie  
 Medina Diaz, Liliana Pamela — Ramirez, Liliana Pamela  
 Middlestadt, Elise Cari — Sversky, Elise Cari  
 Milosevic, Dusan — Milosevic, Richard Dusan  
 Milosevic, Mirjana — Millo, Mirian Mira  
 Misik, Natasha Stefania — Taylor, Natasha Stefania  
 Misir, Shriannand Sanjay — Misir, Shrianand Sanjay  
 Misir, Shrigobin — Misir, Shrigovin  
 Mokbul, Nahid — Sharma, Nahid  
 Monaghan, Laurie Anne — Bennett, Laurie Anne  
 Montgomery, Bonnie Louise — Moore, Bonnie Louise  
 Moody, Evelyn Jean — Berman, Evelyn Jean  
 Moorey, Jasmine Christina — Sheeler, Jasmine Christina  
 Moorey, Robert Adam — Sheeler, Robert Adam  
 Morrow, Stacy Lee — Daicar, Stacy Lee  
 Mpeletzikas, Julie Claire — Dickinson, Julie Claire  
 Muise, Kelly Marie — O'Neill, Kelly Marie  
 Neill, Karen Ann — Greenlees, Karen Ann  
 Nguyen, Thi Kim Chi — Halek, Thi Kim Chi  
 Nossek, Helga Hedvig — Anderson, Helga Hedwig  
 Nowicka, Iwona Malgorzata — Nowicka-Sikorski, Iwona Malgorzata  
 Odiase, Monday Ogieriakhi — Odiase, M'Jay Ogie Junior  
 Ortiz Naboia, Yesenia Azucena — Gordon, Yesenia Azucena  
 Parent, Marie-Anjanette — Ouellette, Marie-Anjanette  
 Parr, Jennifer Melany — Hassman, Jennifer Melany  
 Pasovski, Kerim — Pashobe, Qerim



Patel, Sabera — Patel, Khadijah  
 Peacock, Susan Elizabeth Muriel — Hamilton, Susan Elizabeth Muriel  
 Peck, Jessica-Amber-Lynn — Hoefler, Jessica Amber-Lynn  
 Perry, Kristina Lynn — Fuller, Kristina Lynn  
 Phillips, Kerry Lee Allison — Tooley, Kerry Lee Allison  
 Pintea Munteanu, Adina Malina — Tifrea, Adina Malina  
 Poff, Victoria Anne — Simons, Victoria Anne  
 Pollock, Kaitlyn Danielle — Mortimer, Kaitlyn Danielle  
 Prest, Laura Veronica — Mahari, Ace-Jensen Magan  
 Quarrington, Kelly Anne — Keough, Kelly Ann  
 Rajendram, Nithyakalyani — Thayananthan, Nithyakalyani  
 Randor, Elisabeth Judy — Sipos, Elisabeth Judit  
 Richard, Vicki Lynn — Baird, Vicki Lynn  
 Rickman, Genevieve Mary — Harrison, Genevieve Mary  
 Ritchie, Betty Ann Dorothy — Bissonnette, Betty Ann Dorothy  
 Robinson, Audrey Louise — McMullin, Audrey Louise  
 Rogers, Kelly Lea — Anargyros, Kelly Lea  
 Roy, Lori Ellen — Shaver, Lori Ellen  
 Sardinha, Rose Mary — Reynolds, Rose Mary  
 Scullintano, Deanna Joanne — Scullintano-Viscoso, Deanna Joanne  
 Sedgwick, Christina — Sharpe, Christina  
 Seeratan, Nalini Renuka — Doodnauth, Nalini Renuka  
 Sereno, Maria Margarida Rio — Ramos, Maria Margarida Rio  
 Sero, Carrie Lee — Jacklin, Carrie Lee  
 Sherratt, Susan Marie — Gray, Susan Marie  
 Sholubi, Olajumoke Yetunde — Ogini, Olajumoke Yetunde  
 Shydowsky, Megan Elizabeth — Deffett, Megan Elizabeth  
 Simone, Paola Valeria — Farina, Paola Valeria  
 Simpson, Kimberley Margaret — Jackson, Kimberley Margaret  
 Simpson, Tanya Denise — McKenzie, Tanya Denise  
 Singh, Harnek Singh — Athwal, Harnek Singh  
 Singh, Lakhbir — Dosanjh, Lakhbir Singh  
 Slade, Laura Jennifer — Barker, Laura Jennifer  
 Slauenwhite, Tina Dawn — Hatt, Tina Dawn  
 Slavik, Zdenka — Morrison, Denise  
 Slawycz, Eugen — Naqvi, Eugen  
 Small, Sheri Lynn — Swarbrick, Sheri Lynn  
 St. Arneault, Bradley Michael — Saxton, Nicole Tracey  
 Stanisevska, Radmila — Bekarovski, Radmila  
 Sullivan, Deborah Bernadine — Jackson, Deborah Bernadine  
 Taylor, Bertha Mary Lynne — Mehler, Bertha Mary Lynne  
 Theriault, Mary Susan Irene — Baxter, Mary Susan Irene  
 Toft, Karen Janet — Seigel, Karen Janet  
 Tor, Irena Urszula — Tor Pawlicki, Irena Urszula  
 Tortola, Rocco Joseph Alviano — Keller, Rocky Joseph  
 Tortola, Stella Josephine — Keller, Stellina Josephine  
 Trifler, Dawnyca Wendy-Lee — Cristello, Dawnyca Wendy-Lee  
 Viscoso, Michele — Scullintano-Viscoso, Michele  
 Wan, Qi-Cheng — Wan, Jason  
 Wan, Shi-Yang — Wan, Sean  
 Warsame, Saida Hussein — Warsame, Halima Hussein  
 Webkamigad, Mary Virginia — Peltier, Virginia  
 Wilson, Mandy Marie — Wilson Mabee, Mandy Marie  
 Wojnowska, Agnieszka Krystyna — Kida, Agnes  
 Wolf, Johanna Jenniffer — Gertzbein, Johanna Jenniffer  
 Wong, Ho Yin — Wong, Tony Ho Yin  
 Wong, Hon Sang — Wong, Charles Hon Sang  
 Wong, Iris Sio Fong — McCallum, Iris Sio Fong  
 Yusuf, Ayan — Jama, Ayan Mohamed  
 Yusuf, Samiya — Iman, Nimo Sh Abdilahi  
 Yusuf, Sugan Ali — Jama, Sagal Mohamed  
 Zakrzynska, Dorota — Szczupak, Dorota

INDIRA SINGH,  
 Deputy Registrar General

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NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending October 24, 1997. The listing below shows the previous name followed by the new name.

AVIS EST DONNÉ PAR LES PRÉSENTES que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 24 octobre 1997. La liste ci-dessous indique les anciens noms suivis les nouveaux noms.

Abbasi, Mohamed Ali — Abba, Moe Ali  
 Abdel-Malak, Joeseeph Ossama William — William, Joseph Abdel-Malak, Manal Mounir Lotfy Latif — William, Manal Abdel-Malak, Marian Ossama William — William, Marian Abdel-Malak, Ossama William Sief — William, Ossama Abrantes, Pauline — Rise, Raven  
 Aggett, Susan Gayle — Scholl, Susan Gayle  
 Alexander, Patricia Lynn — McNevan, Patricia Lynn  
 Allan, Donald Robert — Bowker-Allan, Donald Robert  
 Allen, Cody Forbes — Brearley, Cody Allen  
 Allen, Deborah Joyce — Brearley, Deborah Joyce  
 Allie, Sheliza — Hamid, Sheliza  
 Ambicka, Malgorzata Maria — Sulek, Malgorzata Maria  
 Asano, Bruce Thomas — Draven, Gabriel  
 Atlin, Lisse Ellen — Gerofsky, Lisse-Ellen Atlin  
 Badros, Leon — Arakelian, Levon Bedros  
 Badros, Mariam — Arakelian, Mariam  
 Bagchi, Esha Madeleine — Bagchi-Grand, Esha Madeleine  
 Barker, Nancy Carolyn — Tippin, Nancy Carolyn  
 Beaman, Marlene Ruth — Beaman McQuay, Marlene Ruth  
 Beaulne, Christopher Stephane — Trottier, Christopher Stephane  
 Beaulne, Marie Ina Nicole — Trottier, Nicole Ina  
 Bechard, Adelle Marie — Bechard, Linda Adelle Marie  
 Belanger, Sylvie Monique Marie — Belanger Kooper, Sylvie Monique Marie  
 Berezowsky, Clifford Victor — Chorneyko, Clifford Victor  
 Beyene, Dereje Legesse — Legesse, Dereje  
 Bhullar, Kuljit Kaur — Bhullar, Joanie Kuljit  
 Bisnath, Vanda — Maharaj, Vanda  
 Blackler, Norman Michael Worden — Blackler, Michael Norman  
 Blouin, Marie Marguerite Francine — Blouin Wilkinson, Marie Marguerite Francine  
 Boiley, Rodney Earl — McMahon, Rodney Earl  
 Boughner, Mary Jane — Boughner, Jaine Elizabeth  
 Bourgeois, Joseph Clayton Mark — Bourgeois, Marc Clayton Joseph  
 Bowker, Sheri-Lyn Elizabeth — Bowker-Allan, Sheri-Lyn Elizabeth  
 Bradley, Karen Lynne — Savino, Karen Lynne  
 Brajak, Sanja — Voyce, Sanja Teresa  
 Brar, Baljinder Kaur — Bath, Baljinder Kaur  
 Brazeau, Jose — Quenneville, Jose  
 Brousseau, Marie Josee Evanne — Poupart, Marie Josee Evanne  
 Brown, Natalie Jayne — Wild, Natalie Jayne  
 Brown, Violet Dawn — Huang, Violet Dawn  
 Burke, Donovan Alphonso — Whittingham, Donovan Alphonso  
 Butscher, Annette Tanya Otty — Brandt, Annette Anja Otty  
 Buzzi, Richard David — Belanger, Richard David  
 Campeau, Elora — Levy, Elora Celine  
 Campeau, Roxanne Mary — Levy, Roxanne Mary  
 Campese, Salvatore — Barnett, Julius Donald  
 Capozzi, Anna Maria — Gelao, Anna Maria  
 Castellano, Evelyn Cantiga — Agustin, Evelyn Cantiga  
 Casuso Carrion, Cecilia Ines — Herbozo, Cecilia Ines  
 Chapman, Annie Jean — Chapman, Anna Jean  
 Chappell, Darcy Jaco Xavier — Voutt, Darcy Jaco Xavier  
 Chappell, Gail Anne — Voutt, Gail Anne  
 Charlton, Hana Maxime — Harrington, Hana Maxime  
 Charlton, Hayley Michelle — Harrington, Hayley Michelle  
 Chechock, Philomena Ann — Chechock-Henhawke, Philomena Ann  
 Chiu, Jackie Lai Ha — Choi, Jackie Lai Ha  
 Christensen, Janine Yvonne — Armstrong, Janine Yvonne  
 Chung, Seung Hee — Bouchard, Seung-Hee  
 Chusroskie, Cheryl Irene — Luckovitch, Cheryl Irene  
 Collard, Sarah Elizabeth — Skeete, Sarah Elizabeth  
 Corbett, Ana Patricia — Corbett, Jessica Catherine  
 Corkery, Jason Ronald Lee — Cole, Jason Lee  
 Corkery, Kimberley Anne — Cole, Kimberley Ann  
 Corrigan, Natalie Justine — Chychrun, Natalie Justine  
 Crabb, Sheri-Lynn — Hrynkiw, Sheri-Lynn  
 Crichlow, Alexis Vashti — Crichlow-Stewart, Alexis Vashti  
 Crosier, Laura Maria — Wells, Laura Maria  
 Currell, Dana Leah — Dasilva, Dana Leah  
 Curry, Kelly Lynn — Sirvin, Kelly Lynn  
 Davey, Kimberley Ann — Green, Kimberley Ann  
 Davis, Lynn Grace — Rose, Lynn Grace  
 Dawson, Joseph Anthony — Gaitanis, Joseph Anthony  
 De Coutere, Rene Paul — De Coutere, Raymond Paul



- De Grechie, Jennifer Lynn — Fabian, Jennifer Lynn  
 De Jong, Richard William — De Jong, Robert  
 Demers, Melissa Ann — Tozer, Melissa Ann  
 Derango, Rosina — Vicencio, Rosina  
 Dervent, Patricia Ann — Cassis, Patricia Ann  
 Desimone, Milena — Falcicchio, Milena  
 Devon, Giselle Bernadette — Gardner, Giselle Bernadette  
 Dhaliwal, Rupinder Kaur — Bhandal, Rupinder Kaur  
 Dhinsa, Jaspal Kaur — Sandhu, Jaspal Kaur  
 Di-Gianni, Gino-Tony — Di Gianni, Louie  
 Diker, Mary Yeta — Collis, Mary Yeta  
 Dodge, John Christopher — Bancroft, Christopher John  
 Drake, Tanya Beverley — Peacock, Tanya Beverley  
 Duncan, Heather Lynn — Benninger, Heather Lynn  
 Dupuis, Albert Soloman Rejean — Villeneuve, Rejean Albert  
 Dussault, Annyka Caroline Marie Juliette — Bazinet, Annyka Caroline Marie Juliette  
 Efford, Gordon Edward — Ryan, Gordon Edward  
 Ekmedzic, Jadranka — Radulovic, Jadranka  
 Elliott, Chrystal Lynne — Lawrence, Chrystal Lynne  
 Esford-Sauve, Donava — Esford, Donava  
 Faber, Hannah Jean — Faber, Lucille Hannah  
 Faber, Jouke — Faber, Joseph  
 Fagan, Tiffany Jasmine — Voorberg, Tiffany Jasmine  
 Fairley, Brian James — Chartrand, Brian James  
 Fallahy, Masoud — Fallahy, Mohammad  
 Fernandes, Ana Paula — Gergi, Ana Paula  
 Fernando, Joseph Amirthar — Fernando, Joseph Amirtharaj Mersly  
 Firby, Maureen Elizabeth — Woodward, Maureen Elizabeth  
 Flint, Lysee Marie — Davis, Lysee Marie  
 Flint, Nakita Taquila Tanya — Davis, Nakieyta Taquila Tanya  
 Flynn, Robert Lloyd Daniel — Crechiola, Robert Lloyd Daniel  
 Fortunato, Aurora — Bueno, Aurora  
 Fowler Jr., Clifford Abenir — Villanueva, Jeffrey Abenir  
 Foy, Rachelle-Lynn Marie — Lucier, Rachelle-Lynn Marie  
 Francois, Gardy — Mede, Gardy  
 Freeman, Joanne Linda — Fernandes, Joanne Linda  
 Fromow, Diana Jane — Fromow-Boucher, Diana Jane  
 Fu, Yingzi — Buch, Anna Yingzi  
 Galarneau, Marie-Diane Katya — Landry-Galarneau, Marie-Diane Katuscia  
 Gangaram, Pharvatie — Gangaram, Indira Pharvatie  
 Ganic, Amila — Begovic, Amila  
 Gauci, Sarah Caitlin — Black, Sarah Caitlin  
 Gay, Jeffrey Keith — Houlton, Jeffrey Keith Gay  
 Gay, Jordan Christopher — Houlton, Jordan Christopher Gay  
 Gilbey, Sheila Ann — Brilhante, Sheila Ann  
 Gill, Kwegyir Ajayi — Gill, Gregory Ajayi  
 Glover, Patricia Louise — Monahan, Patricia Louise  
 Gould, Matthew Garfield — Gold, Max Garfield  
 Grajales De Al Torre, Milagro Del Carmen — Walterhouse, Milagro Del Carmen  
 Grant, Carol Ross — Grant, Carl Ross  
 Grant, Jennifer Hillary — Armstrong, Michael Gaven  
 Gray, Robert — Royal, Robert Stanely  
 Grossinger, Suzanne — Wolfe, Suzanne  
 Grubisic, Silvija — Zdunic, Silvija  
 Guillemette, Glorienne Marie — Papolis, Glorienne Marie  
 Gujdel, Luzviminda — Blom, Luzviminda  
 Gwinta, Juri — Gwinta, Yuri  
 Ha, Bich Nga — Ha, Kathy Bich Nga  
 Handjis, Dionisia — Aneziris, Dionisia  
 Hanf, Conelia Elisabeth — Grey, Konni Elizabeth  
 Haykal, Kiyana — Haykal, Kay-Anne  
 Heaney, Heather Suzanne Elaine — Sheahan, Heather Suzanne Elaine  
 Hill, Lisa Mae — Assaf, Lisa Mae  
 Hillier, Ashleah Linden — Linden, Ashleah Maddyx  
 Hogg, Pamela Vaughan — Douglas, Pamela Vaughan  
 Hooper, Kimberly Louise — Halverson, Kimberly Louise  
 Houlahan, Mary Gayle — Ciceri, Mary Gayle  
 Howard, Patricia Lynn — Cross, Patricia Lynn  
 Hughes, Pamela Ann — Miller, Pamela Ann  
 Hummel, Jennifer Hope — Hope, Jennifer Kelsea Violet  
 Hunt, Marie Helen — Byrne, Marie Helen  
 Hunt, Mary-Jo — Mace, Mary-Jo  
 Huynh, Chi Cuong — Wong, Ken  
 Ioussoufova, Faina — Semikin, Faina  
 Jabalee, Mireille — Bou-Zaid, Mireille  
 Jackson, Sharon Elizabeth — Field, Sharon Elizabeth  
 Jegasothy, Josephine Rohini — Rabin, Josephine Rohini  
 Jimenez, Mercedes Medina — Kowals, Mercedes Medina  
 Johnston, Tracy Louise — Dias, Tracy Louise  
 Jones, Lisa Lorraine — Jones-Kush, Lisa Lorraine  
 Jurickova, Slavka — Vogel, Claudia Slavka  
 Kaczanowski, Rachel Frances — Whitten, Rachel Frances  
 Kaewduangthien, Chayaphorn — Kettenacker, Kia Chayaphorn  
 Kamstra, Marcia Lynne — Arpin, Marcia Lynne  
 Kasmani, Anna Wilma — D'Souza, Anna Wilma  
 Kaufman, Courtney Lynne Theresa — Roy-Kaufman, Courtney Lynne Theresa  
 Kaur, Inderjit — Soomal, Inderjit Kaur  
 Kaur, Savanna — Soomal, Savanna Kaur  
 Khan, Mary Angela Excilly — Kahn, Mary Angela Excilly  
 Khatau, Shelina — Ishani, Shelina  
 Khristinina, Praskovia Valerievna — Jain, Praskovia Valerievna  
 Khuc, The Ngoc Lan Huong — Khuc-Dao, Jenny Huong  
 Kiriopoulou, Polyxeni-Angela — Gogou, Polyxeni-Angela  
 Kohn, Melinda Marilyn Ann — Vale, Melinda Marilyn Ann  
 Kulchyski, Richard William — Steele, Steve  
 La, Boison — La, Carly  
 Lam, Phuc Thien — Lam, John Thien  
 Landry, Tara Lynn — Bakker, Tara Lynn  
 Lapinskas, Zita Angelika — Valerio, Zita Angelika  
 Lau, Chi Ho — Lau, Chi Ho Jeffrey  
 Lawson, Shelley Marie — Emerson, Kate  
 Lee, Fook Ham — Lee, George Henry  
 Levis, Marie Line — Levis, Marie Lyne  
 Levy, Moshe — Levy, Mike Hayden  
 Li, Ching-Wen — Lee, Ching-Wen  
 Li, Wei — Li, Wei Jonathan  
 Lozon, Sandra Mae — Chant, Sandra Mae  
 Luffman, Dianne Patricia — Lo, Dianne Patricia  
 Lupton, Christine Dianne — Ritsma, Christine Dianne  
 MacGarvie, Lori-Anne Theresa — Sterling, Hope Grace  
 MacLeod, Ricky Scott — MacLeod, Rick Scott  
 Madsen, Karen Elizabeth — Seton, Karen Elizabeth  
 Maitland, Donna Marie — Haslehurst, Donna Marie  
 Mandviwala, Godrej Aspi — Marshall, Alexander Darius  
 Manuel, Kimberly Amanda Dawn — Morrison, Kimberly Amanda Dawn  
 Marinelli, Jerome Joseph Angelo — Marinelli, Peppi Roman  
 Marks, Mary Elizabeth — Meszaros, Mary Elizabeth  
 Martelle, Anne Marie — Cunningham, Anne Marie  
 Martin, Penny Leigh — Boughen, Penny Leigh  
 Martucci, Rufina — Baquial, Rufina Salonga  
 McGinn, Jason Randy — Cooney, Jason Randy  
 McPhee, Denise Jacqueline — Hazelton, Denise Jacqueline  
 McPhee, Michael Ray William — Hazelton, Michael Ray William  
 McPherson, Jeffery Steven — Luckiw, Jeffery Steven McPherson  
 McWhinnie, Megan Ann — McWhinnie-Crouse, Meagan Ann  
 Menzies, Catherine Lynn — Champagne, Catherine Lynn  
 Miguna, Joshua Miguna — Miguna, Miguna  
 Modeste, Marcia Juliana — Martineau, Marcia Juliana  
 Mohammad, Ashti — Harris, Ashti  
 Mohammad, Rachid — Harris, Kohdo  
 Mohammad, Shano — Harris, Shano  
 Mohammad, Shayne — Harris, Shayne  
 Mohammad, Shene — Harris, Shene  
 Mohammed, Ashrina — Boudjelthia, Ashrina  
 Mohammed, Sunpreet — Mohammed, Ruksana  
 Mohr, Sonja Natalie — Mohr-Denison, Sonja Natalie  
 Molla-Mohammady, Hayedeh — Moulin, Heidi  
 Monahan, Sonya Faith — Cole, Finnian  
 Moorthy, Ponnampalam — Agoramoorthy, Balasubramaniam  
 Mornon, Turmena Verona — Mornon Laird, Turmena Verona  
 Morrow, Joan Eileen — Brooks, Joan Eileen  
 Mudunkothgedara, Kanthi Dharmalatha — Perera, Kanthi Dharmalatha  
 Murray, Sara Jean — Willis, Sara Jean  
 Nadarajah, Ramanujan — Seylon, R N  
 Nadarajah, Ranginithevy — Girisan, Ranginithevy



Nakamura, Karen Joy — Monk, Karen Joy  
 Nam, Yesi Ye-Ji — Kim, Yesi Ye-Ji  
 Nangan, Edna Mae Monton — Solsona, Edna Mae Monton  
 Nascimento, Candida De Jesus — Ferreira, Candida De Jesus  
 Ng, Chi Kin — Ng, Kenny Chi Kin  
 Nicholas, Maria Vimala — Niruban, Maria Vimala  
 Nichols, Randall Joseph — Pare, Randall Joseph  
 Nightingale, Paula Jane — Murray-Nightingale, Paula Jane  
 North, Scott Murray — Khalsa, Harpal Singh  
 Nyshnikovskiy, Andry — Snugovsky, Andry  
 Nyzhnikovska, Polina — Snugovsky, Polina  
 O'Flynn, Jacqueline — Webster, Jacqueline  
 O'Neill, Dermot Kieran — O'Neill, Jeffrey Dermot Kieran  
 O'Neill, Terri Lynn — McNeil, Terri Lynn  
 OConnell, Michael Raymond — Lewis, Michael Raymond  
 Ogbonna, Joy Ifeanyi — Ezekwemba, Joy Ifeanyi  
 Olenski, Michael Shawn — Gladun, Michael Shawn  
 Otten, Tracy Leanne — Vanderkuylen, Tracy Leanne  
 Palicte, Lourdes Carress Chaves — Chaves, Lourdes Carress  
 Paratholil, Ivy Paul — Raghurib, Ivy Paul  
 Paterson, Lynne Janet — Demmery, Lynne Janet  
 Peters, Julie Donald — Weberg, Julie Donald  
 Piche, Marie Denise Agathe — Gerbert, Marie Denise Agathe  
 Pilatzke, Amy Dawn — MacKay, Amy Dawn  
 Piscoso, Juliet — Manitchala, Juliet Piscoso  
 Pocock, Daryl Philip — Spires, Daryl Philip  
 Pocock, Michael Stephen — Spires, Michael Stephen  
 Polesel, Graziella — Stagno, Graziella  
 Principe, Anita Lucy — Principe, Antoinette Lucia  
 Prine, Kimberley — Furtado, Kimberley  
 Provencher, Maria Barbara Sara — Provencher-MacLeod,  
 Maria Barbara Sara  
 Pudsey, Rozina Ann — Patterson, Rozina Ann  
 Putman, Christina Mary Lynn — Handy, Erica Diane Morrell  
 Quach, Minh Hong — Huynh, Gary Tuan  
 Rajput, Loveleen Kaur — Aast, Loveleen  
 Ram, Rabindranath Mahabir Hunuman — Ram, Robin  
 Renaud, Diane — Renaud-Durette, Diane  
 Rhodes-Filson, Mary Ellen — Rhodes, Mary Ellen  
 Richardson, Stephanie Veronica — Shaver, Stephanie Veronica  
 Rizzi, Rosa Anna — Colucci, Rosa Anna  
 Rodgers, Cindy Susan Ellen — Tyson, Cindy Susan Ellen  
 Roth, Laura Nadine — Chaim, Laura Nadine  
 Samayoa, Katty Waleska — MacLean, Katty Waleska  
 Sanders, Orah Heather — Katzman, Orah Heather  
 Savage, Maurice Francis — Savage-Turcotte, Maurice Francis  
 Savard, Steven Anthony — Lang, Steven Anthony  
 Sawatsky, Cheryl Lynn — Sabourin, Cheryl Lynn  
 Sax, Alicia Michelle — Vogan, Alicia Michelle Corin  
 Schamb, Tara Leigh — Schaub, Tara  
 Schellenberg, Michael James — Dankoski, Michael James  
 Schwartz, Leanne Naomi — Witchel, Leanne Naomi  
 Schwarze, Susanne — Schwarze-Williams, Susanne  
 Segal Vladoianu, Sorin — Segal, Sorin  
 Segal-Vladoianu, Alina — Segal, Alina  
 Shaw, Jeanine Michelle — Brown, Jeanine Michelle  
 Shewakramani, Yesica — Sharma, Sangita  
 Shi, Yuan — Shi, Elizabeth Yuan  
 Shreve, Lisa Ann — St. Pierre, Lisa Ann  
 Singh, Gurbinder — Soomal, Gurbinder Singh  
 Singh, Harjot — Soomal, Harjot Singh  
 Singh, Paramjit — Aast, Paramjit  
 Sitrak, Nazik — Arakelian, Sevan Stephane  
 Smolnicka, Lidia Iwona — Petryk, Lidia Iwona  
 Snagovsky, Leonid — Snugovsky, Leonid  
 So, Tsui Kam Corina — So, Celina  
 Soares, Elisabete De Fatima Nunes — Cordeiro, Elisabete  
 De Fatima Nunes  
 Sollanatham, Mohanambal — Sivanathan, Mohanambal  
 Sousa, Silmene Cubas — Sousa Mohammed, Silmene Cubas  
 Spencer-Haney, Kim Edna — Haney, Kim Edna  
 Stechnowych, Vera — Beletzan, Vera  
 Stefanska, Elzbieta Wieslawa — Nicol, Elzbieta Wieslawa  
 Stewart, Suzanne Tena — Stewart-Sales, Suzanne Tena  
 Stocchetti, Pasqualina Patty — Amato, Pasqualina Patty  
 Stockall, Amber Edith Christina — Duff, Amber Edith Christina

Storoschuk, Joanne-Mary — Estelle, Joanna  
 Synnott, Mathieu — Beaudoin, Mathieu  
 Szilvasi, Jennifer Julie — MacLean, Jennifer Julie  
 Tanner, Carrie Lynn — McCreight, Carrie Lynn  
 Taylor, Wendy Ellen — Watson, Wendy Ellen  
 Teggart, Julie Anne — Sless, Julie Anne  
 Teo, Say Joe — Seow, Florence Say-Joe Teo  
 Thambirajah, Jeyanthi — Kengatharan, Jeyanthi  
 Tharumakularajah, Niruparajah — Niruban, Raj  
 Thibeault, Marie Madeleine Claudia Monique — Thibeault,  
 Monique Claudia Madeleine Marie  
 Thomas, Phyllis Margarite — Thomas-Biggs, Phyllis Margarite  
 Tolisano, Tina Margaret — Williams, Tina Margaret  
 Topalovic, Dusko — Topalovic, Douglas Dusko  
 Tripa, Alecsandrina Livia — Bogdan, Alecsandrina Livia  
 Truax, Cody Christopher — Burchill, Cody Christopher  
 Tse, Kam Tong — Tse, Simon Kam-Tong  
 Turnbull, Michelle Lee — Hillyer, Michelle Lee  
 Tutshumu, Alelo — Munda, Alelo  
 Tymchuk, Lynn Darlene — Jokinen, Lynn Darlene  
 Valente, Patricia — Valente, Patrizia  
 Velmurugu, Lingawathy — Anandakumar, Lingawathy  
 Venator, Alice Michelle — Kollee, Alice Michelle  
 Villanueva, Zenaida C Ingal — Ingal, Zenaida C.  
 Vranycz, Eszter Erika — Elbert, Esther  
 Walsh, Mack — Waks, Mike  
 Walters, Nicole Carmel — Skalin, Nicole Carmel  
 Wang, Rui — Wang, Tiffany Caitlen-Rui  
 Weber, Shelly Paulette — Potvin, Shelly Paulette  
 Wickramathithan, Jeyarajah — Jeyarajah, Wickramathithan  
 Willett, Shawn Roger Dana — Turner, Shawn Roger Dana  
 Williams, Shannon Eileen — Wigan, Shannon Eileen  
 Williams, Stephen Gregory — Williams, Stephen Gregory  
 Wilson, Jennifer Anne — Stone, Jennifer Emma  
 Wolfstetter Pauling, Brian Roy — Thomson, Brian Roy  
 Wolfstetter Pauling, Sonja — Wolfstetter Thomson, Sonja  
 Wolfstetter Pauling, Susanne Ulrike — Wolfstetter  
 Thomson, Susanne Ulrike  
 Wong, Fung King — Ho, Angela  
 Wong, Krysten — Cheung, Kristin Anna Ting Wai  
 Woo, Linda Big Won — Mandjik, Linda Big Won  
 Woo, Mo Wah — Woo, Mary Mo Wah  
 Wood, Kaitlyn Anne — Kemp, Kaitlyn Mary  
 Wood, Sarah Kirsten — Kemp, Sarah Victoria  
 Yaghoubi-Kouhestani, Cordula — Yacobi, Cordula  
 Ying, Nan Ping — Franklin, Nan Ping  
 Yo, Hyo Sup — Yu, Richard Hyo-Sup  
 Yoganathan, Benilda Sharminee — Vethanayagam,  
 Benilda Sharminee  
 Zapata, Vivian Soteco — Aquino, Vivian Soteco  
 Zekarias, Abrhe — Zekarias, Abrhe-Habte  
 Zekarias, Azieb — Zekarias, Azieb-Habte  
 Zekarias, Daniel — Zekarias, Daniel Habte  
 Zekarias, Ewnetu-Zegeye — Zekarias, Habte-Abedom  
 Zekarias, Tirhas — Zekarias, Tirhas-Habte  
 Zhang, Yinan — Zhang, Jason Yinan  
 Zomer, Ruth Nancy — Aitken, Ruth Nancy

INDIRA SINGH,  
 Deputy Registrar General

(6099) 48

NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending October 31, 1997. The listing below shows the previous name followed by the new name.

AVIS EST DONNÉ PAR LES PRÉSENTES que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 31 octobre 1997. La liste ci-dessous indique les anciens noms suivis les nouveaux noms.

Abdulwahid, Zeena — Bandar, Zeena  
 Abou-Hamad, Ahmad — Hamad, Christopher  
 Aida, Irene Haruko — Wells, Irene Haruko  
 Alexander Weisz, Lorenzo Jeremias — Alexander, Robert Jeremy  
 Alexander Weisz, Luz Maria — Alexander, Lisa Caroline  
 Amoah, Beatrice Philomena — Abladey, Beatrice Philomena



- Amorim, Isabel Maria — Sa, Isabel Maria  
 Andersen, Lise Lotte — Helman-Andersen, Lise Lotte  
 Andrade, Guiomar De Fatima Carreiro — De Souza, Guiomar  
 De Fatima Carreiro  
 Arendarska, Marzanna — Czekaj, Marzanna  
 Arjoonsingh, Karlene Evangelene — Kurt, Karlene Evangelene  
 Azachee, Mary Anne — Burchill, Mary Anne  
 Bajorek, Maria Franciszka — Kiss, Maria Franciszka  
 Balabazuk, Diane — Kress, Diane  
 Banks, Michael Josef Christian — Barr, Michael Josef  
 Bannon, Lori Ann — Harrison, Lori Ann  
 Barbini, Justice — Daragh, Justice  
 Barczyk, Marcin Stanislaw — Barczyk, Martin Stanislaw  
 Barrett-Russell, Linda Joann — Barrett, Linda Joann  
 Bassels, Diane Regina Irene — Gulyas, Diane Regina Irene  
 Belair, Melanie Marie-Noel Pauline — Marleau, Melanie  
 Marie-Noel Pauline  
 Bensabat, Myriam — Nafté, Myriam  
 Berry, Richard William — McKinnon, Samuel James  
 Best, Adriana Brooke — Burt, Adriana  
 Bittle, Heather Joanne — Graham, Heather Joanne  
 Blachford, Janine Patricia — Smith, Janine Patricia  
 Blackburn, Marie Manon — Lauzon, Marie Manon  
 Blowes, Elaine Pearl — Bowley, Elaine Pearl  
 Borg, Kaitlyn Deanah Aerial — Borghese, Kaitlyn Deanah Aerial  
 Breadmore, David James — Barrington, David James  
 Brescacin, Carla Elaine — Dew, Carla Elaine  
 Brockhausen, Inka Hedwig Honey — Brockhausen-Schutzbach,  
 Inka Hedwig Honey  
 Broderick, Tanya Sue — Wilson, Tanya Sue  
 Brown, Diane — Levesque, Diane  
 Buffett, Mary Mona Lisa — Gittens, Mary Mona Lisa  
 Burrows, Frances Louise — Jacques, Frances Louise  
 Buxton, Lesley Antoinette — Buxton, Toni  
 Cadenhead, Lisa Marie — Dwyer, Lisa Marie  
 Camara, Fatima Da Conceicao Da Costa — Paiva, Fatima  
 Da Conceicao Da Costa  
 Cano, Miriam Sarah — Berube, Miriam Sarah  
 Cardinal, Marie Jeannette Marie-Josée — Khatib, Marie  
 Jeannette Marie-Josée  
 Carter, Shane Victoria — Brisson, Shane Victoria  
 Chan, Susan Suet-Shan — Kong, Susan Suet-Shan  
 Chartrand, Joseph Paul Gel — Chartrand, Gill Paul  
 Chu, Agnes Chi-Ling — Hsu, Agnes Chi-Ling  
 Chuchlinska, Zdzislawa Janina — Chuchlinska-Hryn,  
 Zdzislawa Janina  
 Ciccarelli, Lisa Adele — Zuraw, Lisa Adele  
 Clarke, Susan Carol — Jarrett, Susan Carol  
 Conlan, Lisa Bernadette — Skarjak, Lisa Bernadette  
 Corsetti, Patricia — Fortino, Patricia  
 Costa, Liliana Maria Campos — Rangel, Liliana Maria Campos  
 Cottrell, Karen Joyce — Stacey, Karen Joyce  
 D'Agostino, Maria — Farruggio, Maria  
 Davis, Ginette Lynda — Francoeur, Ginette Lynda  
 De Guia, Fatima Grupe — Ruggiero, Fatima Grupe  
 De La Paz, Karen Ponce De Leon — Cassidy, Karen Ponce De Leon  
 De Oliveira, Aleksandra — De Oliveira Hopkins, Aleksandra  
 Delgado-Cruz, Daniel — Di Stasi, Donatello  
 Di Loreto, Lucia — Di Loreto-Sandrin, Lucia  
 Diaz, Margarita Maria — Diaz Dube, Margarita Maria  
 Dooknah, Naikchand — Dooknah Desmond, Naikchand  
 Dove, Margaret Jean — Hayward, Margaret Jean  
 Dupuis, Amanda Krystal Lynn — Rhyno, Amanda Patrisha Lynn  
 Duraisingam, Jasothai — Nareshkumar, Jasothai  
 Etienne, Rachelle — Joseph, Rachelle  
 Evans, Laurie-Anne Dawn — Curtis, Laurie-Anne Dawn  
 Fazio, Sandra — Fazio Raposo, Sandra  
 Forsyth, Kelli Lee — Borghese, Kelli Lee  
 Galve, Janet Castillo — Galve, Janet Esguerra  
 Garito, Julie Maria — Stephens, Julie Maria  
 Geenevasen, Jennifer Maria — McGlashan, Jennifer Maria  
 Gibson, Mary Anne Charlotte — Boneschansker, Mary Anne  
 Charlotte  
 Gilmore, Stephen Alder Everton — Bertrand, Stephen Dwight  
 Glezner, Danuta Anna — Witoszek, Danuta Anna  
 Good, Peter Leslie — Reid, Peter Leslie  
 Goodbrand, Tracy Lyn — Whaling, Tracy Lyn  
 Gordon, Danielle Melissa — Baptista, Danielle Melissa  
 Graham, Leanne — Richard, Leanne  
 Granston, Susan Amanda — Herbert, Susan Amanda  
 Greaves, Stephani Mikaela — Hack, Stephani Mikaela  
 Grewal, Ramandeep Kaur — Boparai, Ramandeep Kaur  
 Grieve, Shreematti — Persaud, Shree  
 Griffin, Cori Lynne — De Wolde, Cori Lynne  
 Guest, Joanna Claire — Paton, Joanna Claire  
 Gugelyk, Ann Marie Joan — Dakin, Annmarie Joan  
 Gugelyk, James Chester — Dakin, James Chester  
 Guthrie, Walter James — Smith, Walter James  
 Gutierrez Navarrete, Ricardina Esther — Purschke, Ricardina Esther  
 Harper, Jennifer Ruth — Harper, Jennica Ruth Helena  
 Harrison, Alana Marguerite-Rose — Bonnett, Alana  
 Marguerite-Rose  
 Hawleyclarke-Morley, Ellen Florence — Sydneyclarke-Hawley,  
 Ellen Florence  
 Hooper, Janet Elizabeth — Depta, Janet Elizabeth  
 Huang, Jane — Huang-Nathens, Jane  
 Hughes, Leeanne Victoria — Hughes-Fernandes, Leeanne Victoria  
 Hutchings, Shane Stephen — Rimmer, Shane Stephen  
 Jacobsen, Tammy Katrina — Toole, Tammy Katrina  
 Johnston, Brenda Lea — Davidson, Brenda Lea  
 Kargus, Katherine Anne — Graham, Katherine Anne  
 Karkanevatos, Mary — Haydock, Mary B.  
 Kaur, Sukhwinder — Brar, Sukhwinder  
 Kearns, John Michael Patrick — Tallent, John Michael Patrick  
 Khan, Ghazala — Sharif, Ghazala  
 Kimball, Catherine Eleanor — Park, Catherine Eleanor  
 Kissoonlall, Raviti Sumatti — Singh, Raviti Sumatti  
 Klusik, Wladyslawa — Sobierajski, Wladyslawa  
 Kolodzie, Paula — Kolodzie Moffat, Paula  
 Kroeker, Peter Michael — Ascough, Irene Joy  
 Kudla, Teresa Janina — Piotrowsky, Teresa Janina  
 Kukkee, Faye Lempi — Labonte, Faye Lempi  
 Laforet, Lisa Michelle — Purdy, Lisa Michelle  
 Lam, Nguyet Kieu — Wong, Kieu Anna  
 Lang, Cole Stevenson — Pascos, Cole Stevenson  
 Lang, Karson Donaldson — Pascos, Karson Donaldson  
 Lang, Keenan Pascos — Pascos, Keenan Stoyanoff  
 Lang, Kerry Alan — Pascos, Kerry  
 Lang, Nash King — Pascos, Nash King  
 Lang, Nolan Casselman — Pascos, Nolan Casselman  
 Lariviere, Lori Ann — Healey, Lori Ann  
 Lawson, Shelley Marie — Green, Shelley Marie  
 Le, Nhan Hong Thi — Le, Vivian Hong Nhan Thi  
 Le Petrie, Nicole — De Mone, Nicole  
 Lecours, Daisy — Randall, Daisy  
 Lee, Chu Jung — Wong, Jung Iris  
 Lee, Chung Chun — Lee, John  
 Leung, Dorothy — Lam, Dorothy  
 Li, Hang — Li, Henrik Hang  
 Li, Yuanjun — Li, Jeff Yuanjun  
 Lindsay, Diana Christine — Steckley, Diana Christine  
 Lisanti, Raymond Robert Michael — Joudrey, Raymond  
 Robert Michael  
 Little, David Jeffrey Martin — Toole, David Jeffrey Martin  
 Little, Jennifer Kathrine Marie — Toole, Jennifer Kathrine Marie  
 Little, Sherry Darlene — Riehl, Sherry Darlene  
 Logan, Janet Marion — Tucker, Janet Marion  
 Loong, Chay Foong — Wong, Jenny Chay Foong  
 MacDougall, Michael Antony — Taonax, Michael Antony  
 Mahl, Brigitta — Virag, Brigitta  
 Martin, Margaret Ann — Martin-Ross, Margaret Ann  
 Masanque, Rosana — Wilson, Rosana  
 Mauricio, Luisa — Gould, Luisa  
 McKenzie, Hazelann — Matamoro, Hazelann  
 McCarthy, Beth Lillian Mary — McCarthy-Bellar, Beth Lillian Mary  
 McGregor, Jenny Lynn — Venturo, Jenny Lynn  
 McMillan, Marva Jean — Power, Marva Jean  
 Meade, Monica Marie — Hill, Monica Marie  
 Melonhead, Chalk — Yudshuwa, Corey Levi  
 Mirsky, Crissy Freda — Mirsky-Karpel, Crissy Freda  
 Moniz, Alexandra Patricia Oliveira — De Melo, Alexandra  
 Patricia Oliveira

- Moniz, Tania Oliveira — De Melo, Tania Oliveira Moniz  
 Moore, Andrea Therese — Ritchie, Andrea Therese  
 Mosallah, Judy Sharlene — Walker, Judy Sharlene  
 Mudd, Robert — Moss, Robert  
 Mustafai, Adile — Ibeski, Adile  
 Namasivayam, Santhiradevy — Anbalagan, Santhiradevy  
 Nero, Judy — McIntosh, Judy  
 Newman, Sandra Lee — McMann, Sandra Lee  
 Nichols, Carol Jane — Hubert, Carol Jane  
 Niddery, Patricia Ann — Griffen, Patricia Ann  
 Nielsen, Hanne Grace — Hargreaves, Hanne Grace  
 Oliveira, Maria Do Carmo Barbosa — De Melo, Maria Do Carmo Barbosa Oliveira  
 Ollivier, Kevyn Marc — Ollivier-Brown, Kevyn Marc  
 Ollivier, Sarah Debra Michele — Ollivier-Brown, Sarah Debra Michele  
 Ori, Maria Teresa Anne — Deamude, Maria Teresa Anne  
 Ottewell, Brenda Beatrice — Trudeau, Brenda Beatrice  
 Pape, Deborah Margaret — Kerbel, Deborah Margaret  
 Pascali, Maria Grazia — Palazzo, Maria Grazia  
 Pastorska, Ewita Patrycja — Pastorska-Whiteside, Ewita Patrycja  
 Peever, Susan Jean — Labrecque, Susan Jean  
 Phillip, Heather Andrea — Phillip-Brookes, Heather Andrea  
 Pietrzak, Elzbieta — Hutzal, Elzbieta  
 Pilkington, Robin Elizabeth Kristy — Clark, Robin Elizabeth Kristy  
 Price, Maria Antonia — Price Halliday, Maria Antonia  
 Rabie, Saadia — Nagib, Mariam  
 Radolovic, Sandra — Coffey, Sandra  
 Rajput, Sukhjinder Kaur — Kondel, Sukhjinder Kaur  
 Ramdial, Jashwinee — Kanji, Jashwinee  
 Riczu, Gregory Allan — Campbell, Gregory Allan  
 Ring, Shelly Ann — Morais, Shelly Ann  
 Roach, Sherla Delores — Forde, Sherla Delores  
 Robichaud, Joseph Roger Albert — Tourigny, Joseph Roger Albert  
 Rock, Kathlene Marie — Fisk, Kathlene Marie  
 Rogers, Shelley Lynne — Deyo, Shelley Lynne  
 Roy, Dominique Renee — Sabourin, Dominique Renee  
 Roy, Julie — Seguin, Julie  
 Rozell, Jordan Douglas — Doan, Jordan Douglas  
 Ruthven, Norma Jean Luetta — Walker, Norma Jean Luetta  
 Saguiguit, Margarita Ruiz — Dos-Remedios, Margarita Ruiz  
 Sandhu, Kamalpreet Kaur — Virk, Kamalpreet Kaur  
 Schwartzentruber, Tricia Kaye — Looser, Tricia Kaye  
 Scott, Christine Yvonne — Simpson, Christine Yvonne  
 Seguin, Marie Jacqueline Carole — Jolicoeur, Marie Jacqueline Carole  
 Sehl, Lisa Marie — Hirschberger, Lisa Marie  
 Semenzin, Luisa-Maria — Liedtke, Luisa-Maria  
 Seneoudom, Dalouny — Seneoudom, Juley Victoria  
 Seneoudom, Senglavay — Seneoudom, Ameer Paulina Senglavay  
 Sheldon, Amy Lynne — Halliday, Amy Lynne  
 Shmidt, Katherine — Schmidt, Katharine Anne  
 Shumka, Rose-Ann — Ladouceur, Roseann  
 Simoes, Maria De Lourdes Antunes — Correia, Maria De Lourdes Antunes  
 Singh, Parbattie — Rodriguez, Parbattie  
 Skagfeld, Karin Catherine — Burns, Karin Catherine  
 Skonieczny, Urszula — Stovel, Urszula  
 Smith, Cindy Diane — Anderson, Cindy Diane  
 Smith, Nijiba Yvonne — Culmer, Nijiba Shaye  
 Smith, Sherisse Danyelle — Culmer, Sherisse Danyelle  
 Sodhi, Sukhvinder Singh — Jassal, Sukhvinder Singh  
 Sookraj, Ranjanie Persaud — Sookraj, Michelle Ranjanie Persaud  
 Soroka, Elizabeth Alexandra — Salnikova Soroka Mythfish, Elizabeth Alexandra  
 Stoeur, James Michael Lawrence — Vas, James Michael Lawrence  
 Stewart, Gordon Roy — Beekhuis, Gordon Roy  
 Strachan, Erica Rachel — MacKenzie, Erica Rachel  
 Strachan, Morgan Alesha — Strachan-Johnson, Morgan Alesha  
 Sung, Shao Hsin — Sung Lin, Shao Hsin  
 Suter, Ruth — Suter, Ruth Samantha  
 Talbot, Craig Albert — Culmer, Cordell James  
 Talbot, Jordan Charles Nathaniel — Culmer, Jordan Charles Kevin  
 Talotta, Caterina — Tapia, Caterina  
 Tapia Cisternas, Mariela Paulina — Tapia Cisternas-Susto, Mariela Paulina  
 Telenko, Maria — Gouravski, Maria  
 Tessier, Joelle — Hotte, Joelle  
 Thekkekara, Paul — Jacob, Paul  
 Theriault, Yvonne Marie Josee — Hevey, Yvonne Marie Josee  
 Theroux, Joseph Francois Rosair — Theroux, Denis Joseph  
 Thompson, Joy Michele — Halbert, Joy Michele  
 Thompson, Margaret Dewar — Crown, Margaret Dewar  
 Todorovic, Biljana — Schmitz, Biljana  
 Tonner, Juanita Ann — Tonner-Goulart, Juanita Ann  
 Towndrow, Sara Margarita — Winger, Sara Margarita  
 Tran, Hung Cam — Tran, Kevin Hung Cam  
 Tugwell, Wendy Lynne — Rice, Wendy Lynne  
 Tuhkanen, Marketta Tuula — Heikkila, Marketta Tuula  
 Turgeon, Lorena Sharron — Donnelly, Lorena Sharron  
 Tyrrell, Sherry Gertrude — Baker, Sherry Gertrude  
 Vezina, Marie Rose Anita — Vezina-Pelly, Marie Rose Anita  
 Vine, Tracy Elizabeth — Gavloski, Tracy Elizabeth  
 Viner, Galina — Kleshch, Galina  
 Wahl, Sophie Madeleine — Von Wahl, Sophie Madeleine  
 Walker, Leslie James Gary Blue — Simard, Leslie James Gary Blue  
 Walsh, Laura Lynne — Diamond, Laura Lynne  
 Webster, Stephanie Lynn — Webster Jacobs, Stephanie Lynn  
 White-Noel, Claudeth Eleise — White, Claudeth Eleise  
 Whitham, Rita — Saunders, Rita  
 Whyte, Christopher Adam — Bell, Christopher Adam  
 Wilkinson, Anthony Joseph Alfred — Bigelow, Anthony Joseph Alfred  
 Wilson, Megan Stacey Lee — Cornwell, Megan Stacey Lee  
 Wilson, Susan Elizabeth — Templin, Susan Elizabeth  
 Windsor, Beverly Marjorie Lulu — Windsor-Miotla, Beverly Marjorie Lulu  
 Wodzis, Kinga Elzbieta — Malek, Kinga Elzbieta  
 Wood, Catherine Anne — Conforzi, Catherine Anne  
 Wu, Lin — Wu, David Lin  
 Wu, Zaichuan — Wu, Charley Zaichuan  
 Young, Diane Joan — Martin, Diane Joan  
 Young, Stephanie Patricia — Young-Gonsalves, Stephanie Patricia

(6100) 48

INDIRA SINGH,  
Deputy Registrar General

## Applications to Provincial Parliament — Private Bills Demandes au Parlement provincial — Projets de loi d'intérêt privé

### PUBLIC NOTICE

The rules of procedure and the fees and costs related to applications for Private Bills are set out in the Standing Orders of the Legislative Assembly. Copies of the Standing Orders may be obtained from:

Committees Branch  
Room 1405, Whitney Block, Queen's Park  
Toronto, Ontario M7A 1A2

Telephone: 416/325-3500 (Collect calls will be accepted.)

Applicants should note that consideration of applications for Private Bills that are received after the first day of September in any calendar year may be postponed until the first regular Session in the next following calendar year.

CLAUDE L. DESROSIERS,  
Clerk of the Legislative Assembly.

(8699) T.F.N.



## Applications to Provincial Parliament Demandes au Parlement provincial

### SOCIETY OF PROFESSIONAL ACCOUNTANTS OF ONTARIO

NOTICE IS HEREBY GIVEN that on behalf of William O. Nichols of the City of Scarborough, Henry Balazs of the City of Scarborough, Gerald A. Oxman of the Town of Markham and Zubair Choudhry of the City of Mississauga, application will be made to the Legislative Assembly of the Province of Ontario for an Act to incorporate the Society of Professional Accountants of Ontario for the purpose of carrying out the objects of the proposed corporation and to enable it to govern and discipline its members and to grant to its members the exclusive use of the designation "Registered Professional Accountant" and the initials "R.P.A.".

The application will be considered by the Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee on Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Legislative Building, Queen's Park, Toronto, Ontario M7A 1A2.

Dated at Toronto, this 24th day of October, 1997.

LOUISE S. PELLEY, Q.C.,  
For and on behalf of the Applicants.

(9375) 45-48

### THE CORPORATION OF THE CITY OF KITCHENER

NOTICE IS HEREBY GIVEN that on behalf of The Corporation of the City of Kitchener, application will be made to the Legislative Assembly of the Province of Ontario for an Act:

To enable the council of the City of Kitchener ("Council") to exercise greater control over the demolition or removal of buildings or structures on properties designated or deemed to be designated as being of architectural or historical significance under the *Ontario Heritage Act* or within an area designated as a heritage conservation district under that Act (a "designated property"). The proposed legislation will permit Council to refuse an application for the demolition or removal of a building or structure on a designated property where it is deemed appropriate by Council to do so unless,

- (a) the owner has obtained a building permit to erect a new building on the site of the building or structure sought to be demolished or removed and the owner is subject to the requirement that construction of such new building be substantially complete within two years of the commencement of the demolition or removal of the building or structure on the designated property; and
- (b) 180 days have elapsed from the date of the decision of Council to refuse the demolition or removal application pertaining to the designated property.

This application will be considered by the Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee on Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Legislative Building, Queens Park, Toronto, Ontario M7A 1A2.

Dated at Kitchener, this 21st day of October, 1997.

DEBRA E. ARNOLD,  
Assistant City Solicitor,  
The Corporation of the City of Kitchener,  
4th Floor - Berlin Tower,  
200 King Street West,  
Kitchener, Ontario N2G 4G7.

(9376) 45-48

### CANADIAN AUTOMOTIVE MUSEUM INC.

NOTICE IS HEREBY GIVEN that on behalf of the Canadian Automotive Museum Inc. application will be made to the Legislative Assembly of the Province of Ontario for an Act to authorize the cancellation of taxes for municipal and school purposes in respect of the land and premises known municipally as 99 Simcoe Street South in the City of Oshawa.

The application will be considered by the Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee on Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Legislative Building, Queen's Park, Toronto, Ontario, M7A 1A2.

Dated at Oshawa, this 22nd day of November, 1997.

J.F. INNES,  
President of the Board of Directors,  
Canadian Automotive Museum Inc.

(9421) 47-50

## Corporation Notices Avis relatifs aux compagnies

### LINDSAY MOBILE SYSTEM FOR THE DISABLED INC.

NOTICE IS HEREBY GIVEN that the number of directors of Lindsay Mobile System for the Disabled Inc. was decreased from 12 to 5 by a Special Resolution which was confirmed by the members of the Corporation on the 30th day of October, 1997.

Dated this 4th day of November, 1997.

(9446) 48  
JANICE PROSKIN,  
President.

### HILLCREST HOSPITAL FOUNDATION

NOTICE IS HEREBY GIVEN that Hillcrest Hospital Foundation intends to surrender its charter/terminate its corporate existence pursuant to Section 319(1)(e) of the *Corporations Act*.

Dated this 25th day of June, 1997.

(9447) 48  
M. JOAN THOMPSON.

### DERMATOLOGY ASSOCIATION OF ONTARIO

NOTICE IS HEREBY GIVEN that the number of directors of Dermatology Association of Ontario was increased from three (3) to eight (8) by a Special Resolution which was confirmed by the Members of the Corporation on the 10th day of April, 1997.

Dated this 10th day of April, 1997.

(9448) 48  
NORMAN SHIFFMAN,  
Secretary.

### NORDIC CO-OPERATIVE HOMES INC.

NOTICE IS HEREBY GIVEN that Nordic Co-operative Homes Inc. intends to dissolve pursuant to the *Co-operative Corporations Act*.

Dated this 9th day of September, 1997.

(9449) 48  
RON KRUGER,  
Secretary.

### RIG RITE ERECTORS INC.

NOTICE IS HEREBY GIVEN that Rig Rite Erectors Inc. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Sudbury, this 18th day of November, 1997.

(9450) 48  
HOWARD JAMES DESCHAMPS,  
President.

**REINDALE FARMS LIMITED**  
Ontario Corporation Number 250533

TAKE NOTICE CONCERNING WINDING UP of Reindale Farms Limited, Date of Incorporation: December 16, 1971, Liquidator: Thomas Faulkner, 1333 Sprucedale Avenue, London, Ontario N5X 2S2, Date Appointed: May 30, 1996.

This notice is filed under subsection 193 (4) of the *Business Corporations Act*. The Special Resolution requiring the Corporation to be wound up voluntarily was passed/consented to by the shareholders of the Corporation on May 30, 1996.

This notice is filed under subsection 205 (2) of the *Business Corporations Act*. A Meeting of the shareholders of the Corporation pursuant to subsection 205 (1) of the Act was held on November 3, 1997.

Pursuant to subsection 205 (3) of the *Business Corporations Act*, on the expiration of three months after the date of filing this notice, the Corporation is dissolved.

Dated this 7th day of November, 1997.

(9451) 48 THOMAS FAULKNER,  
Liquidator.

**1253690 ONTARIO LIMITED**

TAKE NOTICE CONCERNING WINDING UP of 1253690 Ontario Limited, Date of Incorporation: October 28, 1997, Liquidator, Norquay Developments Limited, 101 - 100 Wellington Street, London, Ontario N6B 2K6, Date Appointed: November 1, 1997.

This notice is filed under subsection 205 (2) of the *Business Corporations Act*. A Meeting of the shareholders of the Corporation pursuant to subsection 205 (1) of the Act was held on November 1, 1997.

Dated this 7th day of November, 1997.

(9452) 48 MICHAEL E. HOWE,  
President.

**N.A. TAYLOR FOUNDATION**  
Ontario Corporation Number 633420

NOTICE IS HEREBY GIVEN that the number of directors of N.A. Taylor Foundation was increased from 3 to 5 by a Special Resolution passed by the directors and confirmed by the members of the Corporation on the 21st day of October, 1997.

Dated this 22nd day of October, 1997.

(9454) 48 HARRY P. GINSBERG,  
Secretary.

**ANHEL INVESTMENTS LIMITED**

NOTICE IS HEREBY GIVEN that Anhel Investments Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 31st day of October, 1997.

(9455) 48 HENRY G. GOODMAN,  
President.

**EMERALD EIGHT HOLDINGS INC.**

NOTICE IS HEREBY GIVEN that Emerald Eight Holdings Inc. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Toronto, this 17th day of November, 1997.

(9456) 48 J.T.F. BARKER,  
President.

**G. WALLACE INDUSTRIES (SALES) LIMITED**

NOTICE IS HEREBY GIVEN that G. Wallace Industries (Sales) Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Toronto, this 17th day of November, 1997.

(9457) 48 ANN JAY,  
President.

**Partnership Dissolution/Changes**  
**Dissolution de sociétés/La modifications**

**PIED PIPER RAT FARM**

NOTICE IS HEREBY GIVEN that the partnership between Michael Hannam and Dirty Rat Unlimited Inc. carrying on business as Pied Piper Rat Farm was dissolved effective as of July 31, 1997 pursuant to the *Partnerships Act*.

Dated at Toronto, this 14th day of November, 1997.

(9462) 48 FRASER & BEATTY,  
Barristers & Solicitors,  
Per: Victor Hum.

**Miscellaneous Notices**  
**Avis divers**

**GENERAL INSURANCE COMPANY OF**  
**ROYAL BANK OF CANADA**

NOTICE IS HEREBY GIVEN that General Insurance Company of Royal Bank of Canada / Compagnie d'assurance générale de la Banque Royale du Canada, having its head office in Mississauga, Ontario, intends to apply to the Commissioner of Insurance for Ontario for a licence under Section 40 of the *Insurance Act* (Ontario) to transact property and casualty insurance.

Dated at Mississauga, this 15th day of November, 1997.

(9413) 46-48 ANDREW ROGACKI,  
President and  
Chief Executive Officer,  
General Insurance Company of  
Royal Bank of Canada.



Ontario  
Energy  
Board

Notice "C" E.B.A. 826

**NOTICE OF APPLICATION**  
**AND**

**NOTICE OF WRITTEN HEARING**  
**FRANCHISE APPROVAL FOR**  
**THE CORPORATION OF THE**  
**TOWNSHIP OF ST. VINCENT**

An Application has been filed by Union Gas Limited with the Ontario Energy Board for approval of a municipal franchise agreement for the right to construct and operate works to supply gas, and the right to supply gas, to the Township of St. Vincent pursuant to sections 9 and 10 of the *Municipal Franchises Act*. The Application is to replace an existing franchise agreement between Union Gas Limited and the Corporation of the Township of St. Vincent.

This Notice does not constitute service but is published as a matter of record.

Dated at Toronto, this 13th day of November, 1997.

(9458) 48 ONTARIO ENERGY BOARD  
PAUL B. PUDGE,  
Board Secretary.

**Sheriff's Sale of Lands**  
**Ventes de terrains par le shérif**

UNDER AND BY VIRTUE OF a Writ of Seizure and Sale issued out of The District Court of Ontario, at the Suit of Bank of Montreal, Plaintiff, and to me directed, against the real and personal property of



STANLEY NACEWICZ and WANDA NACEWICZ, Defendant, I have seized and taken in execution and will offer for sale by public auction at The Court House Office at 8 Wellington Street, in the City of St. Thomas, in the County of Elgin, being the Court House Office on the 16th day of January, 1998 at the hour of 2:00 p.m. in the afternoon, in Court Room #2, all the right, title, interest and equity of redemption of the said STANLEY NACEWICZ and WANDA NACEWICZ, in and to THOSE lands and premises located in the following municipality, namely, in the Township of Aldborough, in the County of Elgin, and in the Province of Ontario, and being composed of Part Lot 10, Concession 8, in the Said Township more particularly described as follows:

In the Township of Aldborough, in the County of Elgin, being Part of the South Half of Lot 10, in the 8th Concession, in the said Township, and Part of the North half of said Lot 10, that lies south of the railway right-of-way and containing in all some 98.51 acres;

and

Part of the South half of Lot 10 in the 8th Concession, Township of Aldborough, in the County of Elgin, and municipally known as R.R. #3, Rodney, Ontario.

**TERMS:** Cash or certified cheque.  
Deposit 10% of bid price at the time of sale.  
(Minimum \$1,000.00 or 10% whichever is greater).  
Ten days to arrange financing.  
Deed Poll only on payment in full.  
Other conditions as announced.

This sale is subject to cancellation up to time of sale without further notice.

**NOTE:** No employee of The Ministry of the Attorney General may purchase any goods or chattels, lands or tenements exposed by a Sheriff for sale under legal process either directly or indirectly.

Dated at St. Thomas, this 19th day of November, 1997.

M. GORDON BUTTON,  
Sheriff, County of Elgin,  
Per: K. Stewart Bowsher,  
Solicitor for the Sheriff  
of the County of Elgin.

(9461) 48

## Sales of Lands for Tax Arrears by Public Tender Ventes de terrains par appel d'offres pour arriéré d'impôt

### MUNICIPAL TAX SALES ACT

#### THE TOWNSHIP OF MICHIPICOTEN

TAKE NOTICE that tenders are invited for the purchase of the land described below and will be received until 3:00 p.m. local time on December 17, 1997, at the Municipal Office, P.O. Box 500, 40 Broadway Avenue, Wawa, Ontario P0S 1K0.

The tenders will then be opened in public at 4:00 p.m. E.S.T. on the same day at the Municipal Offices, 40 Broadway Avenue, Wawa, Ontario P0S 1K0.

Description of Land(s)	Minimum Tender Amount
Parcel 57, Algoma West Section Lot 25, Block 25, Plan M-26, Township of Michipicoten. . . . .	\$1,858.91

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust corporation or Province of Ontario Savings Office payable to the municipality and representing at least 20 per cent of the tender amount.

The Municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act*, being chapter M.60 of the Revised Statutes of Ontario 1990 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender contact:

BRUCE WENSTROM,  
Treasurer/Deputy Clerk,  
The Corporation of the  
Township of Michipicoten,  
40 Broadway Avenue,  
P.O. Box 500,  
Wawa, Ontario P0S 1K0  
Telephone: (705) 856-2244  
Facsimile: (705) 856-2120

(9453) 48

### MUNICIPAL TAX SALES ACT

R.S.O. 1990, c. M.60, s. 9 (2) (d) R.R.O. 1990, Reg. 824

#### THE CORPORATION OF THE CITY OF SARNIA

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3:00 p.m. local time on January 12, 1998, at City Hall, 255 N. Christina Street, Sarnia.

The tenders will then be opened in public at 3:01 p.m. at City Hall.

Description of Land(s)	Minimum Tender Amount
Lot 14, Plan 263 (SP), City of Sarnia, County of Lambton; municipally known as 2071 Gladys Street, Bright's Grove. . . . .	\$5,032.89

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust corporation or Province of Ontario Savings Office payable to the municipality or board and representing at least 20 per cent of the tender amount.

The Municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act* and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender, contact:

TREASURER,  
Corporation of the City of Sarnia,  
255 North Christina Street,  
Sarnia, Ontario  
N7T 5V4

(9459) 48

### MUNICIPAL TAX SALES ACT

#### CORPORATION OF THE TOWN OF VALLEY EAST

TAKE NOTICE that tenders are invited for the purchase of the land described below and will be received until 2:00 p.m. local time on December 22nd, 1997, at the Town of Valley East, P.O. Box 430, 1679 Main Street, Val Caron, Ontario P3N 1P6.

The tenders will then be opened in public on the same date at 3:00 p.m. at the Municipal Office, 1679 Main Street, Val Caron, Ontario.

Description of Land(s)	Minimum Tender Amount
Township of Blezard, Con 3 Lot 5 Plan M296 Lot 1 Parcel 35125 PT .....	\$2,341.86
Township of Blezard, Con 3 Lot 5 Plan M296 Lot 2 Parcel 35125 PT .....	\$2,763.26
Township of Blezard, Con 3 Lot 5 Plan M296 Lot 3 Parcel 35125 PT .....	\$2,763.26
Township of Blezard, Con 3 Lot 5 Plan M445 Lot 127 Parcel 32088 PT .....	\$2,997.68
Township of Hanmer, Con 3 Lot 12 Parcel 4661 .....	\$7,162.94
Township of Capreol, Con 3 Lot 5 Parcel 3070 .....	\$5,366.88

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office payable to the municipality and representing at least 20 per cent of the tender amount.

The Municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act*, being chapter M.60 of the Revised Statutes of Ontario 1990 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of "Tender of Purchase" contact:

GORDON G. TOKARYK,  
Treasurer,  
Corporation of the  
Town of Valley East,  
P.O. Box 430,  
1679 Main Street,  
Val Caron, Ontario P3N 1P6

(9460) 48



# Publications under the Regulations Act Publications en vertu de la Loi sur les règlements

1997—11—29

## ONTARIO REGULATION 403/97 made under the BUILDING CODE ACT, 1992

Made: October 29, 1997  
Filed: November 3, 1997

### GENERAL

## Part 1 Scope and Definitions

Section	1.1.	General
	1.1.1.	Administration
	1.1.2.	Scope
	1.1.3.	Definitions of Words and Phrases
	1.1.4.	Abbreviations

## Part 1 Scope and Definitions

### Section 1.1. General

#### 1.1.1. Administration

##### 1.1.1.1. Conformance with Administrative Requirements

(1) This Code shall be administered in conformance with the *Building Code Act, 1992*.

#### 1.1.2. Scope

##### 1.1.2.1. Application

(1) Reserved

#### 1.1.3. Definitions of Words and Phrases

##### 1.1.3.1. Non-defined Terms

(1) Definitions of words and phrases used in this Code that are not included in the list of definitions in this Part shall have the meanings which are commonly assigned to them in the context in which they are used in this Code, taking into account the specialized use of terms with the various trades and professions to which the terminology applies.

##### 1.1.3.2. Defined Terms

(1) The words and terms in italics in this Code have the following meaning for the purposes of this Code, and where indicated, the following meaning for the purposes of the Act as well.

*Accessible* means when applied to a *fixture*, connection, *plumbing appliance*, valve, *cleanout* or equipment, having access thereto but which first may require the removal of an access panel, door or similar obstruction without the cutting or breaking of materials.

*Access to exit* means that part of a *means of egress* within a *floor area* that provides access to an *exit* serving the *floor area*.

*Adfreezing* means the adhesion of *soil* to a *foundation unit* resulting from the freezing of *soil* water.

*Air barrier system* means the assembly installed to provide a continuous barrier to the movement of air.

*Air break* means the unobstructed vertical distance between the lowest point of an *indirectly connected waste pipe* and the *flood level rim* of the *fixture* into which it discharges.

*Air-conditioning* is the process of treating air to control simultaneously its temperature, humidity, cleanliness, and distribution to meet the comfort requirements of the occupants of the conditioned space.

*Air gap* means the unobstructed vertical distance through air between the lowest point of a water supply outlet and the *flood level rim* of the *fixture* or device into which the outlet discharges.

*Air-supported structure* means a structure consisting of a pliable membrane which achieves and maintains its shape and support by internal air pressure.

*Alarm signal* means an audible signal transmitted throughout a zone or zones or throughout a *building* to advise occupants that a fire emergency exists.

*Alert signal* means an audible signal to advise designated persons of a fire emergency.

*Allowable bearing pressure* means the maximum pressure that may be safely applied to a *soil* or *rock* by the *foundation unit* considered in design under expected loading and subsurface conditions.

*Allowable load* means the maximum load that may be safely applied to a *foundation unit* considered in design under expected loading and subsurface conditions.

*Alternative Measure* means a substitute for a requirement of Part 3, 4, 5, 6, 7 or 9 of the Code or for a *compliance alternative*.

*Appliance* means a device to convert fuel into energy and includes all components, controls, wiring and piping required to be part of the device by the applicable standard referred to in this Code.

*Applicable law* means, for the purposes of Section 8 of the Act, any general or special Act, and all regulations and by-laws enacted thereunder, which prohibit the proposed *construction* or *demolition* of the *building* unless the Act, regulation or by-law is complied with.

*Applicable law* means, for the purposes of Clause 10(2)(a) of the Act, any general or special Act, and all regulations and by-laws enacted thereunder, which prohibit the proposed use of the *building* unless the Act, regulation or by-law is complied with.

*Architect* means, for the purposes of the Act and this Code, the holder of a licence, a certificate of practice or a temporary licence under the *Architects Act*.

*Artesian groundwater* means a confined body of water under pressure in the ground.

*As constructed plans* means, for the purposes of the Act and this Code, *construction* plans and specifications that show the *building* and the

location of the *building* on the property as the *building* has been constructed.

*Assembly occupancy* means the *occupancy* or the use of a *building*, or part thereof, by a gathering of persons for civic, political, travel, religious social, educational, recreational or like purposes, or for the consumption of food or drink.

*Attic or roof space* means the space between the roof and the ceiling of the top *storey* or between a dwarf wall and a sloping roof.

*Backflow* means a flowing back or reversal of the normal direction of the flow.

*Backflow preventer* means a device or a method that prevents *backflow* in a *water distribution system*.

*Back-siphonage* means *backflow* caused by a negative pressure in the supply system.

*Back-siphonage preventer* means a device or a method that prevents *back-siphonage* in a *water distribution system*.

*Back vent* means a pipe that is installed to vent a *trap* off the horizontal section of a *fixture* drain or the *vertical leg* of a water closet or other *fixture* that has an integral siphonic flushing action and "back vented" has a corresponding meaning.

*Backwater valve* means a *check valve* designed for use in a gravity *drainage system*.

*Barrier-free* means that a *building* and its facilities can be approached, entered, and used by persons with physical or sensory disabilities.

*Basement* means a *storey* or *storeys* of a *building* located below the *first storey*.

*Bearing surface* means the contact surface between a *foundation unit* and the *soil* or *rock* upon which it bears.

*Boarding, lodging or rooming house* means a *building* where,

- (a) *building height* does not exceed 3 *storeys* and *building area* does not exceed 600 m<sup>2</sup>,
- (b) lodging is provided for more than 4 persons in return for remuneration or for the provision of services or for both, and
- (c) lodging rooms do not have both bathrooms and kitchen facilities for the exclusive use of individual occupants.

*Boiler* means an *appliance* intended to supply hot water or steam for space heating, processing or power purposes.

*Bottle trap* means a *trap* that retains water in a closed chamber and that seals the water by submerging the inlet pipe in the liquids or by a partition submerged in the liquids.

*Branch* means a *soil* or *waste pipe* connected at its upstream end to the junction of 2 or more *soil* or *waste pipes* or to a *soil* or *waste stack*, and connected at its downstream end to another *branch*, a sump, a *soil* or *waste stack* or a *building drain*.

*Branch vent* means a *vent pipe* that is connected at its lower end to the junction of 2 or more *vent pipes* and is connected at its upper end either to a *stack vent*, *vent stack* or *header*, or is terminated in *open air*.

*Breeching* means a *flue pipe* or chamber for receiving *flue* gases from 1 or more *flue* connections and for discharging these gases through a single *flue* connection.

*Building area* means the greatest horizontal area of a *building* above *grade* within the outside surface of exterior walls or within the outside surface of exterior walls and the centre line of *firewalls*.

*Building control valve* means the valve on a *water system* that controls the flow of *potable water* from the *water service pipe* to the *water distribution system*.

*Building drain* means *sanitary building drain* or *storm building drain*.

*Building height* means the number of *storeys* contained between the roof and the floor of the *first storey*.

*Building sewer* means *sanitary building sewer* or *storm building sewer*.

*Building trap* means a *trap* that is installed in a *sanitary building drain* or *sanitary building sewer* to prevent circulation of air between a *sanitary drainage system* and a public sewer.

*Business and personal services occupancy* means the *occupancy* or use of a *building* or part thereof for the transaction of business or the rendering or receiving of professional or personal services.

*Camp for housing of workers* means a camp in which *buildings* or other structures or premises are used to accommodate 5 or more employees.

*Campground* means land or premises used as an overnight camping facility other than a *recreational camp*.

*Canopy* means a roof-like structure projecting more than 300 mm from the exterior face of the *building*.

*Care and treatment occupancy* (Group B, Division 2) means an *occupancy* in which persons receive special care and treatment.

*Care occupancy* (Group B, Division 3) means an *occupancy* in which persons receive special or supervisory care because of cognitive or physical limitations, but does not include a *dwelling unit*.

*Care or detention occupancy* means the *occupancy* or use of a *building* or part thereof by persons who,

- (a) are dependent on others to release security devices to permit egress,
- (b) receive special care and treatment, or
- (c) receive supervisory care.

*Cavity wall* means a construction of masonry units laid with a cavity between the wythes. The wythes are tied together with metal ties or bonding units and are relied on to act together in resisting lateral loads.

*Check valve* means a valve that permits flow in one direction but prevents a return flow.

*Chimney* means a primarily vertical shaft enclosing at least 1 *flue* for conducting *flue* gases to the outdoors.

*Chimney liner* means a conduit containing a *chimney flue* used as a lining of a *masonry* or *concrete chimney*.

*Circuit vent* means a *vent pipe* that functions for two or more *traps* connecting to a *horizontal branch* where the lower end of the *vent*



*pipe* connects to the waste pipe on the downstream side of the highest *fixture* of the group and the upper end connects to a *branch vent*, *vent stack*, *stack vent* or extends to *open air* independently and “circuit vented” has a corresponding meaning.

*Cleanout* means a fitting access in a *drainage system* or *venting system* that is installed to provide access for cleaning and inspection and that is provided with a readily replaceable air tight cover.

*Clean water* means water that has passed through a *recirculation system*.

*Clear water waste* means waste water containing no impurities or contaminants that are harmful to a person's health, plant or animal life or that impair the quality of the natural environment.

*Closure* means a device or assembly for closing an opening through a *fire separation* or an exterior wall, such as a door, a shutter, wired glass or glass block, and includes all components such as hardware, closing devices, frames and anchors.

*Combustible* means that a material fails to meet the acceptance criteria of CAN4-S114, “Standard Method of Test for Determination of Non-Combustibility in Building Materials.”

*Combustible construction* means that type of construction that does not meet the requirements for *noncombustible construction*.

*Compliance alternative* means a substitute for a requirement in another Part of the Code that is listed in Part 10 or 11, and “C.A.” has a corresponding meaning.

*Computer room* means a room containing electronic computer/data processing equipment such as main frame type, which is separated from the remainder of the *building* for the purpose of controlling the air quality in the room by a self-contained climate control system and in which the *occupant load* of the room is not more than one person for each 40 m<sup>2</sup> of the room.

*Conditioned Space* means any space within a *building* the temperature of which is controlled to limit variation in response to the exterior ambient temperature or interior differential temperatures by the provision, either directly or indirectly, of heating or cooling over substantial portions of the year.

*Construction index* means a level on a scale of 1 to 8 determined in accordance with Table 11.2.1.1.A. designating the expected *performance level* of the *building* structure with respect to the type of *construction* and fire protection of an existing *building*, and “C.I.” has a corresponding meaning.

*Contained use area* means a supervised area containing one or more rooms in which occupant movement is restricted to a single room by security measures not under the control of the occupant.

*Continuous waste and vent* means a *vent pipe* that is a vertical extension of a vertical *waste pipe* and includes the vertical *waste pipe*.

*Critical level* means the level of submergence at which the *back-siphonage preventer* ceases to prevent *back-siphonage*.

*Day camp* means a camp or resort that admits persons for a continuous period not exceeding twenty-four hours.

*Day nursery* means a day nursery as defined in the *Day Nurseries Act*.

*Dead end* means a pipe that terminates with a closed fitting.

*Dead load* means the weight of all permanent structural and nonstructural components of a *building*.

*Deep foundation* means a *foundation unit* that provides support for a *building* by transferring loads either by end-bearing to a *soil* or *rock* at considerable depth below the *building*, or by adhesion or friction, or both, in the *soil* or *rock* in which it is placed. *Piles* are the most common type of *deep foundation*.

*Design bearing pressure* means the pressure applied by a *foundation unit* to a *soil* or *rock* and which is not greater than the *allowable bearing pressure*.

*Designer* means the person responsible for the design.

*Design load* means the load applied to a *foundation unit* and which is not greater than the *allowable load*.

*Detention occupancy* (Group B, Division 1) means an *occupancy* in which persons are under restraint or are incapable of self preservation because of security measures not under their control.

*Developed length* means the length along the centre line of the pipe and fittings.

*Directly connected* means physically connected in such a way that water or gas cannot escape from the connection.

*Distributing pipe* means a pipe or piping in a *water distribution system*.

*Diving board* means a flexible board.

*Diving platform* means a rigid platform that is not a *starting platform*.

*Drainage system* means an assembly of pipes, fittings, *fixtures* and appurtenances on the property that is used to convey *sewage* and *clear water waste* to a main sewer or a *private sewage disposal system*, and includes a *private sewer* but does not include *subsoil drainage piping* or piping that carries *storm sewage* from areas that are not part of a *building*.

*Drum trap* means a *trap* that has the inlet and outlet ends in the sides of the cylindrical body of the *trap*.

*Dwelling unit* means a *suite* operated as a housekeeping unit, used or intended to be used as a domicile by 1 or more persons and usually containing cooking, eating, living, sleeping and sanitary facilities.

*Electric space heating* means an electric energy source that provides more than 10% of the heating capacity provided for the *building* and includes the following types:

- (a) electric resistance unitary baseboard heating,
- (b) electric resistance unitary cabinet heating,
- (c) electric resistance ceiling cable or floor cable heating,
- (d) electric resistance central furnace heating,
- (e) electric hot water space heating, or
- (f) air source heat pumps in combination with electric resistance backup heating.

*Excavation* means the space created by the removal of *soil*, *rock* or *fill* for the purposes of construction.

*Exhaust duct* means a duct through which air is conveyed from a room or space to the outdoors.

*Exit* means that part of a *means of egress*, including doorways, that leads from the *floor area* it serves, to a separate *building*, an open public thoroughfare, or an exterior open space protected from fire exposure from the *building* and having access to an open public thoroughfare.

*Exit level* means the level of an enclosed *exit* stair in a *building* governed by Subsection 3.2.6. at which an exterior *exit* door or *exit* corridor leads to the exterior.

*Exit storey* means a *storey* having an exterior *exit* door in a *building* governed by Subsection 3.2.6.

*Exposing building face* means that part of the exterior wall of a *building* which faces one direction and is located between ground level and the ceiling of its top *storey*, or where a *building* is divided into *fire compartments*, the exterior wall of a *fire compartment* which faces one direction.

*Exterior cladding* means those components of a *building* which are exposed to the outdoor environment and are intended to provide protection against wind, water or vapour.

*Factory-built chimney* means a *chimney* consisting entirely of factory-made parts, each designed to be assembled with the other without requiring fabrication on site.

*Farm building* means a *building* or part thereof which does not contain a *residential occupancy* and which is associated with and located on land devoted to the practice of farming and used essentially for the housing of equipment or livestock, or the production, storage or processing of agricultural and horticultural produce or feeds.

*Fill* means *soil*, *rock*, rubble, industrial waste such as slag, organic material or a combination of these that is transported and placed on the natural surface of a *soil* or *rock* or organic terrain. It may or may not be compacted.

*Fire compartment* means an enclosed space in a *building* that is separated from all other parts of the *building* by enclosing construction providing a *fire separation* that may be required to have a *fire-resistance rating*.

*Fire damper* means a *closure* which consists of a normally held open damper installed in an air distribution system or in a wall or floor assembly, and designed to close automatically in the event of a fire in order to maintain the integrity of the *fire separation*.

*Fire detector* means a device which detects a fire condition and automatically initiates an electrical signal to actuate an *alert signal* or *alarm signal* and includes *heat detectors* and *smoke detectors*.

*Fire load* means the *combustible* contents of a room or *floor area* expressed in terms of the average weight of *combustible* materials per unit area, from which the potential heat liberation may be calculated based on the calorific value of the materials, and includes the furnishings, finished floor, wall and ceiling finishes, trim and temporary and movable *partitions*.

*Fire-protection rating* means the time in hours or fraction thereof that a *closure* will withstand the passage of flame when exposed to fire under specified conditions of test and performance criteria, or as otherwise prescribed in this Code.

*Fire-resistance rating* means the time in hours or fraction thereof that a material or assembly of materials will withstand the passage of flame and the transmission of heat when exposed to fire under specified conditions of test and performance criteria, or as determined by extension or interpretation of information derived therefrom as prescribed in this Code.

*Fire-retardant treated wood* means wood or a wood product that has had its surface-burning characteristics, such as flame spread, rate of fuel contribution and density of smoke developed, reduced by impregnation with fire-retardant chemicals.

*Fire separation* means a construction assembly that acts as a barrier against the spread of fire.

*Fire service main* means a pipe and its appurtenances which are connected to a *water works* or a *private water supply system* and are located on the property:

- (a) between the source of water and the base of the riser of a water-based fire protection system,
- (b) between the source of water and inlets to foam making systems,
- (c) between the source of water and the base elbow of private hydrants or monitor nozzles,
- (d) used as fire pump suction and discharge piping not within a *building*, or
- (e) beginning at the inlet side of the check valve on a gravity or pressure tank.

*Fire stop flap* means a device intended for use in horizontal assemblies required to have a *fire-resistance rating* and incorporating protective ceiling membranes, which operates to close off a duct opening through the membrane in the event of a fire.

*Firewall* means a type of *fire separation* of *noncombustible construction* which subdivides a *building* or separates adjoining *buildings* to resist the spread of fire and which has a *fire-resistance rating* as prescribed in this Code and has structural stability to remain intact under fire conditions for the required fire-rated time.

*First storey* means the *storey* with its floor closest to *grade* and having its ceiling more than 1.8 m above *grade*.

*Fixture* means a receptacle, *plumbing appliance*, apparatus or other device that discharges *sewage* or *clear water waste*, and includes a floor drain.

*Fixture drain* means the pipe that connects a *trap* serving a *fixture* to another part of a *drainage system*.

*Fixture outlet pipe* means a pipe that connects the waste opening of a *fixture* to the *trap* serving the *fixture*.

*Fixture unit* (as applying to *drainage systems*) means the unit of measure based on the rate of discharge, time of operation and frequency of use of a *fixture* that expresses the hydraulic load that is imposed by that *fixture* on the *drainage system*.

*Fixture unit* (as applying to *water distribution systems*) means the unit of measure based on the rate of supply, time of operation and frequency of use of a *fixture* or outlet that expresses the hydraulic load that is imposed by that *fixture* or outlet on the supply system.

*Flame-spread rating* means an index or classification indicating the extent of spread-of-flame on the surface of a material or an assembly of materials as determined in a standard fire test as prescribed in this Code.

*Flood level rim* means the top edge at which water can overflow from a *fixture* or device.

*Floor area* means the space on any *storey* of a *building* between exterior walls and required *firewalls* including the space occupied by interior walls and *partitions*, but not including *exits*, *vertical service spaces*, and their enclosing assemblies.



*Flue* means an enclosed passageway for conveying *flue* gases.

*Flue collar* means the portion of a fuel-fired *appliance* designed for the attachment of the *flue pipe* or *breeching*.

*Flue pipe* means the pipe connecting the *flue collar* of an *appliance* to a *chimney*.

*Forced-air furnace* means a *furnace* equipped with a fan that provides the primary means for the circulation of air.

*Force main* means a *sanitary drainage pipe* through which *sanitary sewage* is conveyed by mechanical or pneumatic propulsion.

*Foundation* means a system or arrangement of *foundation units* through which the loads from a *building* are transferred to supporting *soil* or *rock*.

*Foundation unit* means one of the structural members of the *foundation* of a *building* such as a footing, raft or *pile*.

*Fresh air inlet* means a *vent pipe* that is installed in conjunction with a *building trap* and terminates in *open air*.

*Frost action* means the phenomenon that occurs when water in *soil* is subjected to freezing which, because of the water ice phase change or ice lens growth, results in a total volume increase or the build-up of expansive forces under confined conditions or both, and the subsequent thawing that leads to loss of *soil* strength and increased compressibility.

*Furnace* means a *space-heating appliance* using warm air as the heating medium and usually having provision for the attachment of ducts.

*Gas vent* means that portion of a venting system designed to convey vent gases to the outdoors from the *vent connector* of a gas-fired *appliance* or directly from the *appliance* when a *vent connector* is not used.

*Grade* means the average level of proposed or finished ground adjoining a *building* at all exterior walls.

*Graded lumber* means lumber which has been graded and stamped to indicate its grade as determined by the NLGA "Standard Grading Rules for Canadian Lumber".

*Gross area* means the total area of all floors above *grade* measured between the outside surfaces of exterior walls or between the outside surfaces of exterior walls and the centre line of *firewalls* except that, in any other *occupancy* than a *residential occupancy*, where an access or a *building* service penetrates a *firewall*, measurements shall not be taken to the centre line of such *firewall*.

*Groundwater* means a free standing body of water in the ground.

*Groundwater level* means the top surface of a free standing body of water in the ground.

*Guard* means a protective barrier around openings in floors or at the open sides of stairs, landings, balconies, *mezzanines*, galleries, raised *walkways* or other locations to prevent accidental falls from one level to another. Such barrier may or may not have openings through it.

*Hazard index* means a level on a scale of 1 to 8 determined in accordance with Tables 11.2.1.1.B. to 11.2.1.1.N. designating the life safety hazard to occupants of the *building* based on,

(a) use and *occupancy*,

(b) *occupant load*,

(c) the use and function of floor spaces,

(d) the difficulty of egress,

(e) the fire load of contents, finishes and furnishings,

(f) the configuration or compartmentation of floor spaces, and

(g) the size of *building*,

and "H.I." has a corresponding meaning.

*Hazardous classroom* means a classroom supplied with flammable gas, containing hazardous substances such as chemicals or explosive dusts, containing large quantities of *combustible* materials or where cooking equipment is used.

*Hazardous room* means a room containing sufficient quantities of a substance which because of its chemical nature may create an atmosphere or condition of imminent hazard to health.

*Header* means a *vent pipe* that connects two or more *vent stacks* or *stack vents* to *open air*.

*Heat detector* means a *fire detector* designed to operate at a predetermined temperature or rate of temperature rise.

*Heavy timber construction* means that type of *combustible construction* in which a degree of fire safety is attained by placing limitations on the sizes of wood structural members and on thickness and composition of wood floors and roofs and by the avoidance of concealed spaces under floors and roofs.

*Heritage building* means a *building* designated under the *Ontario Heritage Act*, or a *building* that is certified to be of significant architectural or historical value by a recognized, non-profit public organization whose primary object is the preservation of structures of architectural or historical significance and which certification is accepted by the *chief building official*.

*High hazard industrial occupancy* (Group F, Division 1) means an *industrial occupancy* containing sufficient quantities of highly *combustible* and flammable or explosive materials which, because of their inherent characteristics, constitute a special fire hazard.

*Home for special care* means a home for the care of persons requiring nursing, residential or sheltered care.

*Horizontal branch* means that part of a *waste pipe* that is horizontal and installed to convey the discharge from more than one *fixture*.

*Horizontal exit* means an *exit* from one *building* to another by means of a doorway, vestibule, *walkway*, bridge or balcony.

*Horizontal service space* means a space such as an attic, duct, ceiling, roof or crawl space oriented essentially in a horizontal plane, concealed and generally inaccessible, through which *building* service facilities such as pipes, ducts and wiring may pass.

*Hotel* means *floor areas*, a *floor area* or part of a *floor area* containing 4 or more *suites* which provide sleeping accommodation for the travelling public or for recreational purposes.

*Hub drain* means a drain opening for indirect liquid wastes that does not serve as a floor drain, that has the same pipe *size*, material and venting requirements as a floor drain and that has a *flood level rim* above the floor in which it is installed and receives wastes that are discharged directly into the drain opening.

*Impeded egress zone* means a supervised area in which occupants have free movement but require the release, by security personnel, of security doors at the boundary before they are able to leave the area, but does not include a *contained use area*.

*Indirect service water heater* means a *service water heater* that derives its heat from a heating medium such as warm air, steam or hot water.

*Indirectly connected* means not *directly connected*.

*Indoor pool* means a *public pool* where the pool and *pool deck* are totally or partially covered by a roof.

*Industrial occupancy* means the *occupancy* or use of a *building* or part thereof for the assembling, fabricating, manufacturing, processing, repairing or storing of goods and materials.

*Interceptor* means a receptacle that is designed and installed to prevent oil, grease, sand or other materials from passing into a *drainage system*.

*Interconnected floor space* means superimposed *floor areas* or parts of *floor areas* in which floor assemblies that are required to be *fire separations* are penetrated by openings that are not provided with *closures*.

*Leader* means a pipe that is installed to carry storm water from a roof to a *storm building drain* or sewer or other place of disposal.

*Limiting distance* means the distance from an *exposing building face* to a property line, the centre line of a *street*, lane or public thoroughfare, or to an imaginary line between 2 *buildings* or *fire compartments* on the same property, measured at right angles to the *exposing building face*.

*Listed* means equipment or materials included in a list published by a certification organization accredited by the Standards Council of Canada.

*Live load* means the load other than *dead load* to be assumed in the design of the structural members of a *building*. It includes loads resulting from snow, rain, wind, earthquake and those due to *occupancy*.

*Live/work unit* means a *dwelling unit* that contains a subsidiary *business and personal services occupancy* or a subsidiary *low hazard industrial occupancy*, has an area of not more than 150 m<sup>2</sup>, and is used and operated by one or more persons of a single household.

*Loadbearing* as applying to a *building element* means subjected to or designed to carry loads in addition to its own *dead load*, excepting a wall element subjected only to wind or earthquake loads in addition to its own *dead load*.

*Low hazard industrial occupancy* (Group F, Division 3) means an *industrial occupancy* in which the *combustible* content is not more than 50 kg/m<sup>2</sup> or 1200 MJ/m<sup>2</sup> of *floor area*.

*Low human occupancy* (as applying to *farm buildings*) means an *occupancy* having an *occupant load* of not more than one person per 40 m<sup>2</sup> of *floor area* during normal use.

*Major occupancy* means the principal *occupancy* for which a *building* or part thereof is used or intended to be used, and shall be deemed to include the subsidiary *occupancies* which are an integral part of the principal *occupancy*.

*Make-up water* means water added to a *public pool* from an external source.

*Marquee* means a *canopy* over an entrance to a *building*.

*Masonry or concrete chimney* means a *chimney* of brick, stone, concrete or masonry units constructed on site.

*Means of egress* means a continuous path of travel provided for the escape of persons from any point in a *building* or contained open space to a separate *building*, an open public thoroughfare, or an exterior open space protected from fire exposure from the *building* and having access to an open public thoroughfare. *Means of egress* includes *exits* and *access to exits*.

*Medium hazard industrial occupancy* (Group F, Division 2) means an *industrial occupancy* in which the *combustible* content is more than 50 kg/m<sup>2</sup> or 1200 MJ/m<sup>2</sup> of *floor area* and not classified as *high hazard industrial occupancy*.

*Mercantile occupancy* means the *occupancy* or use of a *building* or part thereof for the displaying or selling of retail goods, wares or merchandise.

*Mezzanine* means an intermediate floor assembly between the floor and ceiling of any room or *storey* and includes an interior balcony.

*Modified pool* means a *public pool* that has a basin-shaped floor sloping downward and inward toward the interior from the rim.

*Modified stack venting* means a *stack venting* arrangement where the *stack vent* above the connection of the highest *stack vented fixture* is reduced in diameter.

*Nominally horizontal* means at an angle of less than 45° with the horizontal.

*Nominally vertical* means at an angle of not more than 45° with the vertical.

*Noncombustible* means that a material meets the acceptance criteria of CAN4-S114, "Standard Method of Test for Determination of Non-Combustibility in Building Materials".

*Noncombustible construction* means that type of construction in which a degree of fire safety is attained by the use of *noncombustible* materials for structural members and other building assemblies.

*Occupancy* means the use or intended use of a *building* or part thereof for the shelter or support of persons, animals or property.

*Occupant load* means the number of persons for which *building* or part thereof is designed.

*Offset* means the piping that connects the ends of 2 pipes that are parallel.

*Open air* means the atmosphere outside a *building*.

*Open-air storey* means a *storey* in which at least 25 per cent of the total area of its perimeter walls is open to the outdoors in a manner that will provide cross ventilation to the entire *storey*.

*Outdoor pool* means a *public pool* that is not an *indoor pool*.

*Partition* means an interior wall 1 *storey* or part-*storey* in height that is not *loadbearing*.

*Party wall* means a wall jointly owned and jointly used by 2 parties under easement agreement or by right in law, and erected at or upon a line separating 2 parcels of land each of which is, or is capable of being, a separate real-estate entity.

*Perched groundwater* means a free standing body of water in the ground extending to a limited depth.



*Performance level* means that level of performance under which all or part of an existing *building* functions with respect to its *building systems*.

*Pharmacy* means a premises or the part of a premises in which prescriptions are compounded and dispensed for the public or in which drugs are sold by retail.

*Pile* means a slender *deep foundation unit*, made of materials such as wood, steel or concrete or combination thereof, which is either premanufactured and placed by driving, jacking, jetting or screwing, or cast-in-place in a hole formed by driving, excavating or boring.

*Plenum* means a chamber forming part of an air duct system.

*Plumbing appliance* means a receptacle or equipment that receives or collects water, liquids or *sewage* and discharges water, liquid or *sewage* directly or indirectly to a *plumbing system*.

*Plumbing system* means a system of connected piping, fittings, valves, equipment, *fixtures* and appurtenances contained in *plumbing*.

*Pool deck* means the area immediately surrounding a *public pool*.

*Post-disaster building* means a *building* essential to provide services in the event of a disaster, and includes hospitals, fire stations, police stations, radio stations, telephone exchanges, power stations, electrical substations, water and sewage pumping stations and fuel depot *buildings*.

*Potable* means fit for human consumption.

*Potable water system* means the *plumbing* that conveys *potable water*.

*Private sewage disposal system* means a sewage works or a *sewage system* requiring a Certificate of Approval under the *Ontario Water Resources Act* or the *Environmental Protection Act*, and which is not owned and operated by the Crown, a municipality or an organization acceptable to the Director responsible for issuing the Certificate of Approval.

*Private sewer* means a sewer other than a *building sewer* that,

- (a) is not owned or operated by a municipality, the Ministry of Environment or other public agency,
- (b) receives drainage from more than one *sanitary building drain* either directly or through more than one *sanitary building sewer* or receives drainage from more than one *storm building drain* either directly or through one or more *storm building sewers*, and connects to a main sewer, or
- (c) serves as a place of disposal on the property,  
but does not include:
- (d) a sewer that carries only the sanitary waste or *storm sewage* from two semi-detached dwelling units,
- (e) a sewer that carries only the sanitary waste or *storm sewage* from one main *building* that is of *industrial*, commercial or *institutional occupancy* and one ancillary *building*, or
- (f) a sewer that carries only the sanitary waste or *storm sewage* from a row housing complex having five or fewer single family residences.

*Private water supply* means piping that serves as a source of supply on the property to more than one *water service pipe*.

*Private water supply system* means an assembly of pipes, fittings, valves, equipment and appurtenances that supplies water from a private source to a *potable water system*.

*Professional engineer* means, for the purposes of the Act and this Code, a person who holds a licence or a temporary licence under the *Professional Engineers Act*.

*Public corridor* means a corridor that provides *access to exit* from more than 1 *suite*.

*Public heritage building* means a *heritage building* where *occupancy* in whole or in part includes viewing thereof by the public provided that displays therein are limited to those relevant to the heritage significance of the *building*.

*Public pool* means a structure, basin, chamber or tank containing or intended to contain an artificial body of water for swimming, water sport, water recreation or entertainment but does not include,

- (a) pools operated in conjunction with less than six *dwelling units*, *suites* or single family residences or any combination thereof,
- (b) pools that are used only for commercial display and demonstration purposes,
- (c) wading pools,
- (d) hydro-massage pools, or
- (e) pools that serve only as receiving basins for persons at the bottom of water slides.

*Public use* (as applying to the classification of plumbing *fixtures*) means *fixtures* in general washrooms of schools, gymnasiums, hotels, bars, public comfort stations and other installations where *fixtures* are installed so that their use is unrestricted.

*Public way* means a sidewalk, *street*, highway, square or other open space to which the public has access, as of right or by invitation, expressed or implied.

*Range* means a cooking *appliance* equipped with a cooking surface and 1 or more ovens.

*Recirculation system* means a system that maintains circulation of water through a *public pool* by pumps, and that provides continuous treatment that includes filtration and chlorination or bromination and any other process that may be necessary for the treatment of the water.

*Recreational camp* means a camp for recreational activities consisting of 1 or more *buildings* or other structures, established or maintained as living quarters with or without charge for 10 or more persons, for temporary occupancy of 5 or more days.

*Relief vent* means a *vent pipe* that connects at the upper end to a *vent stack* and connects at the lower end to a *horizontal branch* between the first *fixture* connection and the *soil stack* or *waste stack*.

*Repair* for the purposes of s.15 (5) (b) of the Act includes taking any actions that the *chief building official* considers necessary for the protection of the public.

*Repair garage* means a *building* or part thereof where facilities are provided for the repair or servicing of motor vehicles.

*Residential occupancy* means the *occupancy* or use of a *building* or part thereof by persons for whom sleeping accommodation is provided but who are not harboured or detained to receive medical care or treatment or are not involuntarily detained.

*Return duct* means a duct for conveying air from a space being heated, ventilated or air-conditioned back to the heating, ventilating or air-conditioning appliance.

*Riser* means a water distributing pipe that extends through at least one full storey (as defined in Part 7 of this Code).

*Rock* means that portion of the earth's crust which is consolidated, coherent and relatively hard and is a naturally formed, solidly bonded, mass of mineral matter which cannot readily be broken by hand.

*Roof drain* means a fitting or device that is installed in the roof to permit storm sewage to discharge into a leader.

*Roof gutter* means an exterior channel installed at the base of a sloped roof to convey storm sewage.

*Sanitary building drain* means a building drain that conducts sewage and connects to the sanitary building sewer.

*Sanitary building sewer* means a pipe that is connected to a sanitary building drain 1 000 mm outside a wall of a building and that conducts sewage to a public sewer or private sewage disposal system.

*Sanitary drainage pipe* means all piping that conveys sanitary sewage to a place of disposal, including the sanitary building drain, sanitary building sewer, soil pipe, soil stack, waste stack and waste pipe but not the main sewer or piping in a sewage treatment plant.

*Sanitary drainage system* means a drainage system that conducts sanitary sewage.

*Sanitary sewage* means liquid or water borne waste,

- (a) of industrial or commercial origin, or
- (b) of domestic origin, including human body waste, toilet or other bathroom waste, and shower, tub, culinary, sink and laundry waste.

*Sanitary sewer* means a sewer that conducts sewage.

*Sanitary unit* means a water closet, urinal, bidet or bedpan washer.

*Self-service storage building* means a building that is used to provide individual storage spaces to the public and that is open to the public only for those purposes.

*Service room* means a room provided in a building to contain equipment associated with building services.

*Service space* means space provided in a building to facilitate or conceal the installation of building service facilities such as chutes, ducts, pipes, shafts or wires.

*Service water heater* means a device for heating water for plumbing services.

*Sewage* means sanitary sewage or storm sewage.

*Sewage system* means a sewage system as defined in Part VIII of the Environmental Protection Act.

*Shallow foundation* means a foundation unit which derives its support from soil or rock located close to the lowest part of the building which it supports.

*Size* means the nominal diameter by which a pipe, fitting, trap or other similar item is commercially designated.

*Smoke alarm* means a combined smoke detector and audible alarm device designed to sound an alarm within the room or suite in which it is located upon the detection of smoke within that room or suite.

*Smoke detector* means a fire detector designed to operate when the concentration of airborne combustion products exceeds a pre-determined level.

*Soil* means that portion of the earth's crust which is fragmentary, or such that some individual particles of a dried sample may be readily separated by agitation in water; it includes boulders, cobbles, gravel, sand, silt, clay and organic matter.

*Soil pipe* means a sanitary drainage pipe that carries the discharge of a sanitary unit with or without the discharge from any other fixture.

*Soil stack* means a vertical soil pipe that passes through one or more storeys and includes any offset that is part of the stack.

*Space heater* means a space-heating appliance for heating the room or space within which it is located, without the use of ducts.

*Space-heating appliance* means an appliance intended for the supplying of heat to a room or space directly, such as a space heater, fireplace or unit heater, or to rooms or spaces of a building through a heating system such as a central furnace or boiler.

*Sprinklered* means equipped with a system of automatic sprinklers.

*Stack vent* means a vent pipe that connects the top of a soil or waste stack to a header or open air and "stack vented" has a corresponding meaning.

*Stack venting* when used with reference to fixtures means an arrangement such that the connections of the drainage piping from the stack vented fixtures to the stack provide venting to the fixture traps so that no additional vent pipe is required.

*Stage* means a space designed primarily for theatrical performances with provision for quick change scenery and overhead lighting, including environmental control for a wide range of lighting and sound effects and which is traditionally, but not necessarily, separated from the audience by a proscenium wall and curtain opening.

*Starting platform* means a rigid platform located entirely on the pool deck consisting of a top which, if projected horizontally over the water surface, would be less than 1 000 mm in vertical height above the surface and that is designed to be used by a swimmer to dive from at the start of a swimming race.

*Storage garage* means a building or part thereof intended for the storage or parking of motor vehicles and which contains no provision for the repair or servicing of such vehicles.

*Storage-type service water heater* means a service water heater with an integral hot water storage tank.

*Storey* means that portion of a building which is situated between the top of any floor and the top of the floor next above it, and if there is no floor above it, that portion between the top of such floor and the ceiling above it.

*Storm building drain* means a building drain that conveys storm sewage to a storm building sewer.

*Storm building sewer* means a building sewer that conveys storm sewage to a place of disposal and commences 1 000 mm from the building.



**Storm drainage pipe** means all the connected piping that conveys *storm sewage* to a place of disposal and includes the *storm building drain*, *storm building sewer*, rain water *leader* catch basin and area drain installed to collect water from the property and the piping that drains water from a swimming pool or from water cooled air conditioning equipment, but does not include

- (a) a main *storm sewer*,
- (b) a *subsoil drainage pipe*, or
- (c) a private sewage treatment and disposal facility designed for the treatment or retention of storm sewage prior to discharge to the natural environment.

**Storm drainage system** means a *drainage system* that conveys *storm sewage*.

**Storm sewage** means water that is discharged from a surface as a result of rainfall, snow melt or snowfall.

**Storm sewer** means a sewer that conveys *storm sewage*.

**Stove** means an *appliance* intended for cooking and space heating.

**Street** means any highway, road, boulevard, square or other improved thoroughfare 9 m or more in width, which has been dedicated or deeded for public use, and is accessible to fire department vehicles and equipment.

**Subsoil drainage pipe** means a pipe that is installed underground to intercept and convey subsurface water, and includes foundation drain pipes.

**Subsurface investigation** means the appraisal of the general subsurface conditions at a *building* site by analysis of information gained by such methods as geological surveys, in situ testing, sampling, visual inspection, laboratory testing of samples of the subsurface materials and *groundwater* observations and measurements.

**Suite** means a single room or series of rooms of complementary use, operated under a single tenancy, and includes *dwelling units*, individual guest rooms in motels, hotels, boarding houses, rooming houses and dormitories as well as individual stores and individual or complementary rooms for *business and personal services occupancies*.

**Supply duct** means a duct for conveying air from a heating, ventilating or *air-conditioning appliance* to a space to be heated, ventilated or air-conditioned.

**Theatre** means a place of public assembly intended for the production and viewing of the performing arts or the screening and viewing of motion pictures, and consisting of an auditorium with permanently fixed seats intended solely for a viewing audience.

**Trap** means a fitting or device that is designed to hold a liquid seal that will prevent the passage of gas but will not materially affect the flow of a liquid.

**Trap dip** means the lowest part of the upper interior surface of a *trap*.

**Trap seal depth** means the vertical distance between the *trap dip* and the *trap weir*.

**Trap standard** means the *trap* for a *fixture* that is integral with the support for the *fixture*.

**Trap weir** means the highest part of the lower interior surface of a *trap*.

**Ungraded lumber** means lumber which has not been grade stamped to indicate its grade as determined by the NLGA "Standard Grading Rules for Canadian Lumber" but which meets the following visual attributes:

- (a) it is rough sawn to full nominal size,
- (b) it has no evidence of decay,
- (c) it has no tight knots which exceed 25 per cent of the cross section and which are spaced closer than 150 mm on centres,
- (d) it has no loose knots or holes which exceed 25 per cent of the cross section and which are spaced closer than 600 mm on centres,
- (e) it has the slope of grain not exceeding 1 (vertical) in 4 (horizontal), and
- (f) it is free of excessive warp.

**Unit heater** means a suspended *space heater* with an integral air circulating fan.

**Unprotected opening** as applying to *exposing building face* means a doorway, window or opening other than one equipped with a *closure* having the required *fire-protection rating*, or any part of a wall forming part of the *exposing building face* that has a *fire-resistance rating* less than required for the *exposing building face*.

**Vacuum breaker** means *back-siphonage preventer*.

**Vapour barrier** means the elements installed to control the diffusion of water vapour.

**Vent connector** as applying to heating or cooling systems means the part of a venting system that conducts the *flue* gases or vent gases from the *flue collar* of a gas *appliance* to the *chimney* or *gas vent*, and may include a draft control device.

**Vent pipe** means a pipe that is part of a *venting system*.

**Vent stack** means a *vent pipe* that is connected at its upper end to a *header* or is terminated in *open air* and that is used to limit pressure differential in a *soil* or *waste stack*.

**Venting system** means an assembly of pipes and fittings that connects a *drainage system* with *open air* for circulation of air and the protection of *trap* seals in the *drainage system*.

**Vertical leg** means the vertical portion of a *fixture* drain and includes the portion of a drain from the outlet of a water closet bowl to the point where the connecting piping changes to horizontal.

**Vertical service space** means a shaft oriented essentially vertically that is provided in a *building* to facilitate the installation of building services including mechanical, electrical and plumbing installations and facilities such as elevators, refuse chutes and linen chutes.

**Walkway** means a covered or roofed pedestrian thoroughfare used to connect 2 or more *buildings*.

**Waste pipe** means a *sanitary drainage pipe* that carries the discharge from a *fixture* directly to a *waste stack*, *soil stack*, *sanitary building drain*, *branch* or *sewage system*.

**Waste stack** means a vertical *waste pipe* that passes through one or more *storeys* and includes any offset that is part of the stack that conducts liquid waste from *fixtures* other than *sanitary units*.

**Water distribution system** means an assembly of pipes, fittings, valves and appurtenances that conveys water from the *water service pipe* or

*private water supply system* to water supply outlets, *fixtures*, *plumbing appliances* and devices.

*Water purveyor* means the owner or operator of a *water works*.

*Water service pipe* means a pipe on the property that conveys *potable* water from a *water works* or private water source to the inside of the *building*.

*Water system* means a *private water supply system*, a *water service pipe*, a *water distribution system*, a *fire service main* or parts thereof, but does not include equipment or the facilities for the treatment of water which are subject to the *Ontario Water Resources Act*.

*Water works* means water works as defined in the *Ontario Water Resources Act*.

*Wave action pool* means a *public pool* equipped with a means for inducing wave motion in the water.

*Wet vent* means a *waste pipe* that also serves as a *vent pipe*.

*X-ray equipment* includes x-ray imaging systems, processing equipment and equipment directly related to the production of images for diagnosis or directly related to irradiation with x-rays for therapy.

*X-ray machine* means an electrically-powered device producing x-rays for the irradiation of a human being or an animal for a therapeutic or diagnostic purpose or for industrial use.

*Yoke vent* means a *vent pipe* that is connected at its lower end to a *soil* or *waste stack* and at its upper end to a *vent stack* or a *branch vent* that is connected to a *vent stack*.

#### 1.1.4. Abbreviations

##### 1.1.4.1. Abbreviations of Proper Names

(1) The abbreviations of proper names in this Code shall have the meanings assigned to them in this Article. The appropriate addresses are shown in brackets following the name.

ACI . . . . .	American Concrete Institute (38800 Country Club Drive, Farmington Hills, Michigan 48331 U.S.A.)
ACNBC . . . . .	Associate Committee on the National Building Code (National Research Council of Canada, Ottawa, Ontario K1A 0R6)
ANSI . . . . .	American National Standards Institute (11 W. 42nd St., New York, New York 10036 U.S.A.)
ASHRAE . . . . .	American Society of Heating, Refrigerating and Air-Conditioning Engineers (1791 Tullie Circle N.E., Atlanta, Georgia 30329-2305 U.S.A.)
ASPE . . . . .	American Society of Plumbing Engineers (3617 Thousand Oaks Blvd., Suite 210, Westlake, California 91362 U.S.A.)
ASTM . . . . .	American Society for Testing and Materials (1916 Race Street, Philadelphia, Pennsylvania 19103-1187 U.S.A.)
AWWA . . . . .	American Water Works Association (45 23rd. Street, Toronto, Ontario M8V 3M6)
BRMD . . . . .	Bureau of Radiation and Medical Devices (Department of National Health and Welfare 775 Brookefield Road, Ottawa, Ontario K1A 1C1)

CAN . . . . .	National Standard of Canada designation (The number or name following the CAN designation represents the agency under whose auspices the standard is issued. CAN1 designates CGA, CAN2 designates CGSB, CAN3 designates CSA, and CAN4 designates ULC.)
CGA . . . . .	Canadian Gas Association (178 Rexdale Boulevard, Rexdale, Ontario M9W 1R3)
CGSB . . . . .	Canadian General Standards Board (11 Laurier St. Hull, Ottawa, Ontario K1A 0S5)
CLA . . . . .	Canadian Lumbermen's Association (27 Goulburn Avenue, Ottawa, Ontario K1N 8C7)
CSA . . . . .	Canadian Standards Association (178 Rexdale Boulevard, Rexdale, Ontario M9W 1R3)
DBR . . . . .	Division of Building Research (now called the Institute for Research in Construction) National Research Council of Canada, Ottawa, Ontario K1A 0R6
FINA . . . . .	Federation Internationale de Natation Amateur (208-3540 West 41st Avenue, Vancouver, British Columbia V6N 2G8)
HI . . . . .	Hydronics Institute (35 Russo Place, P.O. Box 218, Berkeley Heights, New Jersey 07922 U.S.A.)
HRAI . . . . .	Heating, Refrigerating and Air-Conditioning Institute of Canada (5045 Orbitor Drive, Building 11, Suite 300, Mississauga, Ontario L4W 4Y4)
HUD . . . . .	U.S. Department of Housing and Urban Development (Office of the Assistant Secretary for Policy Development and Research, Washington, D.C. 20410 U.S.A.)
MOEE . . . . .	Ontario Ministry of the Environment and Energy (135 St Clair Avenue West, Toronto, Ontario M4V 1P5)
NBC . . . . .	National Building Code of Canada (National Research Council of Canada, Ottawa, Ontario K1A 0R6)
NFPA . . . . .	National Fire Protection Association (1 Batterymarch Park, P.O. Box 9101, Quincy, Massachusetts 02269-9101 U.S.A.)
NLGA . . . . .	National Lumber Grades Authority (103-4400 Dominion Street, Burnaby, British Columbia V5G 4G3)
SMACNA . . . . .	Sheet Metal and Air Conditioning Contractors National Association Inc. (4201 Lafayette Centre Drive, Chantilly, Virginia 20151 U.S.A.)
ULC . . . . .	Underwriters' Laboratories of Canada (7 Crouse Road, Scarborough, Ontario M1R 3A9)
WCLIB . . . . .	West Coast Lumber Inspection Bureau (6980 Southwest Varns Street, P.O. Box 23145, Portland, Oregon 97223 U.S.A.)
WH . . . . .	Warnock Hersey Professional Services Ltd. (3210 American Drive, Mississauga, Ontario L4V 1B3)
WWPA . . . . .	Western Wood Products Association (1500 Yeon Building, Portland, Oregon 97204 U.S.A.)

##### 1.1.4.2. Symbols and Other Abbreviations

(1) The symbols and other abbreviations in this Code shall have the meanings assigned to them in this Article.

1 in 2 . . . . .	slope of 1 vertical to 2 horizontal
ABS . . . . .	acrylonitrile-butadiene-styrene
cm . . . . .	centimetre(s)



cm <sup>2</sup> .....	square centimetre(s)
CPVC .....	chlorinated poly (vinyl chloride)
dB(A) .....	decibel-weighted sound level
° .....	degree(s)
°C .....	degree(s) Celsius
diam .....	diameter
DWV .....	drain, waste and vent
g .....	gram(s)
ga .....	gauge
gal .....	imperial gallon(s)
gal/min .....	imperial gallon(s) per minute
h .....	hour(s)
HVAC .....	Heating, Ventilating and Air-conditioning
Hz .....	hertz
in .....	inch(es)
Inc. ....	Incorporated
J .....	joule(s)
kg .....	kilogram(s)
kg/m <sup>2</sup> .....	kilograms per square metre
kN .....	kilonewton(s)
kPa .....	kilopascal(s)
kW .....	kilowatt(s)
L .....	litre(s)
L/s .....	litre(s) per second
lx .....	lux
m .....	metre(s)
m <sup>2</sup> .....	square metre(s)
m/s .....	metre(s) per second
max. ....	maximum
mg/L .....	milligram(s) per litre
min. ....	minimum
min .....	minute(s)
MJ .....	megajoule(s)
mm .....	millimetre(s)
MPa .....	megapascal(s)
N .....	newton
N/A .....	not applicable
ng .....	nanogram(s)
No. ....	number(s)
nom. ....	nominal
o.c. ....	on centre
OSB .....	oriented strandboard
Pa .....	pascal(s)
PB .....	polybutylene
PE .....	polyethylene
PE/AL/PE .....	Polyethylene/Aluminum/Polyethylene
PEX .....	cross-linked polyethylene
PEX/AL/PEX .....	Crosslinked Polyethylene/Aluminum/ Crosslinked Polyethylene
PVC .....	poly (vinyl chloride)
RSI .....	thermal resistance, International System of Units
s .....	second(s)
SDR .....	standard dimension ratio
temp. ....	temperature
T&G .....	tongue and groove
W .....	watt(s)
wt .....	weight
% .....	per cent

## Part 2

### General Requirements

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## Part 2

### General Requirement

#### Section 2.1. Application

##### 2.1.1. Buildings

##### 2.1.1.1. Parts 1, 2, 7 and 12

(1) Parts 1, 2, 7 and 12 apply to all *buildings*.

##### 2.1.1.2. Parts 3, 4, 5 and 6

(1) Except as provided in Article 2.1.1.5., Sentence 2.1.1.6.(1) and Subsection 2.1.2., Parts 3, 4, 5 and 6 apply to all *buildings* occupying an area greater than ten square meters and

(a) used for

(i) Group A, *assembly occupancies*,

(ii) Group B, *institutional occupancies*, or

- (iii) Group F, Division 1, *high hazard industrial occupancies*, and
- (b) exceeding 600 m<sup>2</sup> in *building area* or exceeding 3 *storeys* in *building height* used for *major occupancies* classified as
  - (i) Group C, *residential occupancies*,
  - (ii) Group D, *business and personal services occupancies*,
  - (iii) Group E, *mercantile occupancies*, or
  - (iv) Group F, Division 2 and 3, *medium and low hazard industrial occupancies*.

#### 2.1.1.3. Part 9

(1) Except as provided in Sentences 2.1.1.4.(2), 2.1.1.6.(1) and Article 2.1.1.5., Part 9 applies to *buildings* occupying an area greater than ten square metres

- (a) of 3 *storeys* or less in *building height*,
- (b) having a *building area* not exceeding 600 m<sup>2</sup>, and
- (c) used for:
  - (i) Group C, *residential occupancies*,
  - (ii) Group D, *business and personal services occupancies*,
  - (iii) Group E, *mercantile occupancies*, or
  - (iv) Group F, Division 2 and 3, *medium and low hazard industrial occupancies*.

#### 2.1.1.4. Site Assembled and Factory-Built Buildings

(1) Except as provided in Sentence (2) and Article 2.1.1.7., this Code applies to the design and *construction* of site assembled *buildings* and manufactured *buildings*.

(2) Except as provided in Sentence (3), a manufactured *building* intended for *residential occupancy* is deemed to comply with this Code if it is designed and constructed in compliance with

- (a) CAN/CSA-Z240.2.1., "Structural Requirements for Mobile Homes", CAN/CSA-Z240.8.1., "Light Duty Windows" and CAN/CSA-Z240.3.1., "Plumbing Requirements for Mobile Homes", if the *building* is constructed in Sections not wider than 4.88 m, or
- (b) CSA A-277 "Procedure for Certification of Factory-Built Houses".
- (3) The requirements of this Code shall apply to
  - (a) *building* components designed and constructed outside the place of manufacture, and
  - (b) site installation of such *buildings*.

#### 2.1.1.5. Farm Buildings

(1) Except as provided in Sentences (2) and (3), *farm buildings* shall conform to the requirements in the CCBFC National Farm Building Code of Canada 1995.

(2) Articles 1.1.1.2. and 3.1.8.1. and Subsections 3.1.4. and 4.1.4. in the National Farm Building Code of Canada do not apply to *farm buildings*.

(3) In the National Farm Building Code of Canada, references in Articles 1.1.1.3., 1.2.1.2., 2.2.2.1., 2.2.2.2., 2.3.1.1., 2.3.2.1., 3.1.1.1., 3.1.1.2., 3.1.2.1. and 3.1.6.1. to the National Building Code of Canada are deemed to refer to this Code.

#### 2.1.1.6. Renovation of Existing Buildings

(1) Except as provided in Sentence (2), Part 11 applies to the design and *construction* of existing *buildings*, or parts of existing *buildings*, that have been in existence for at least five years.

(2) Where a *building* has been in existence for at least five years but includes an addition that has been in existence for less than five years, Part 11 applies to the entire *building*.

#### 2.1.1.7. Existing Buildings

(1) Except as provided in Section 3.15., Article 7.1.2.2., Section 9.41. and Part 11, where an existing *building* is extended or subject to material alteration or repair, the Code is applicable only to the design and *construction* of the extensions and those parts of the *building* that are subject to the material alteration or repair.

(2) Where an existing previously occupied *building* is moved from the original location to be installed elsewhere, or is dismantled at the original location and moved to be reconstituted elsewhere, the Code applies only to changes to the design and *construction* of the *building* required as a result of moving the *building*.

#### 2.1.1.8. Radon

(1) In addition to all other requirements, a *building* in the following designated areas shall be designed and constructed so that the annual average concentration of radon 222 does not exceed 250 millibecquerels per litre of air and the annual average concentration of the short lived daughters of radon 222 does not exceed 0.02 working levels inside the *building*

- (a) The Town of Elliot Lake in the Territorial District of Algoma,
- (b) The Township of Faraday in the County of Hastings, and
- (c) The geographic Township of Hyman in the Territorial District of Sudbury.

#### 2.1.1.9. Durability of Parking Structures

(1) Parking structures shall be designed in conformance with CAN/CSA-S413, "Parking Structures".

#### 2.1.1.10. Language Used on Required Signs

(1) All required signs in this Code shall be displayed in the English language or in the English and French languages, including operational material on all life safety equipment and devices.

#### 2.1.1.11. Energy Efficiency

(1) Except for *buildings* of *residential occupancy* within the scope of Part 9, *farm buildings* and areas of *buildings* intended primarily for manufacturing or commercial or industrial processing, the energy efficiency of all *buildings* shall be designed to good engineering practice such as described in

- (a) the ASHRAE/IES 90.1-1989, "Energy Efficient Design of New Buildings Except Lowrise Residential Buildings" and the Supplementary Guidelines to the 1997 OBC, or



- (b) the Model National Energy Code for Buildings, 1997.

#### 2.1.1.12. Change of Use

(1) Part 10 applies to existing *buildings* requiring a permit under Section 10 of the Act.

#### 2.1.1.13. Building in Flood Plains

- (1) *Buildings* constructed on flood plains shall
  - (a) be designed and constructed in accordance with good engineering practice to withstand anticipated vertical and horizontal hydrostatic pressures acting on the structure, and
  - (b) incorporate floodproofing measures that will preserve the integrity of exits and means of egress during times of flooding.

#### 2.1.2. Designated Structures

##### 2.1.2.1. Part 4

- (1) Part 4 applies to the following designated structures:
  - (a) a retaining wall exceeding 1 000 mm in exposed height adjacent to
    - (i) public property,
    - (ii) access to a *building*, or
    - (iii) private property to which the public is admitted,
  - (b) the structural requirements for signs regulated by Section 3.14.,
  - (c) a communication tower exceeding 16.6 m above ground level,
  - (d) a pedestrian bridge appurtenant to a *building*,
  - (e) a crane runway,
  - (f) an exterior storage tank and its supporting structure which is not regulated by the *Gasoline Handling Act* or the *Energy Act*,
  - (g) a dish antenna or a solar collector that is mounted on a *building* and has a face area equal to or greater than 5 m<sup>2</sup>, and
  - (h) an *outdoor pool* that has a water depth greater than 3.5 m at any point.

(2) *Public pools* are designated structures to which Section 3.11. applies.

#### 2.1.3. Building Size Determination

##### 2.1.3.1. Building Divided by Firewalls

(1) Where a *firewall* divides a *building*, each portion of the *building* so divided shall be considered as a separate *building*, except for the purpose of

- (a) *gross area* determination in Section 2.3.,
- (b) a fire alarm and detection system in Sentence 3.2.4.2.(1) or Article 9.10.17.1., or
- (c) a *plumbing system* interconnected through a *firewall*.

##### 2.1.3.2. Building Divided by Vertical Fire Separations

(1) Except as permitted in Sentence (2), where portions of a *building* are completely separated by a vertical *fire separation* that has a *fire-resistance rating* of at least 1 h and extends through all *storeys* and *service spaces* of the separate portions, each separated portion is permitted to be considered as a separate *building* for the purpose of determining *building height* provided

- (a) each separated portion is not more than 3 *storeys* in *building height* and is used only for *residential occupancies*, and
- (b) the unobstructed path of travel for the firefighter from the nearest *street* to one entrance of each separated portion is not more than 45 m.

(2) The vertical *fire separation* in Sentence (1) may terminate at the floor assembly immediately above a *basement* provided the *basement* conforms to Article 3.2.1.2.

#### Section 2.2. Materials, Appliances, Systems and Equipment

##### 2.2.1. General

##### 2.2.1.1. Characteristics of Materials, Appliances, Systems and Equipment

(1) All materials, *appliances*, systems and equipment installed to meet the requirements of this Code shall possess the necessary characteristics to perform their intended functions when installed in a *building*.

##### 2.2.1.2. Recycled Materials, Used Materials, Appliances and Equipment

(1) Unless otherwise specified, recycled materials in *building* products may be used and used materials, *appliances* and equipment may be reused when they meet the requirements of this Code for new materials and are satisfactory for the intended use.

##### 2.2.2. Building Materials Evaluation Commission

##### 2.2.2.1. Application Fee

(1) The fee on an application to the Building Materials Evaluation Commission is \$750.00.

#### Section 2.3. Design and General Review

##### 2.3.1. Design

##### 2.3.1.1. Design by Architect or Professional Engineer

(1) Except as permitted in Sentences (2) and (3), the *construction*, including, for greater certainty, enlargement or alteration, of every *building* or part thereof described in Table 2.3.1.1. and this Article shall be designed and reviewed by an *architect*, *professional engineer* or both.

(2) An *architect* may provide the services within the practice of professional engineering in any *building* described in Table 2.3.1.1., or a *professional engineer* may provide the services within the practice of architecture in any *building* described in Table 2.3.1.1. where to do so does not constitute a substantial part of the services provided by the other profession related to the *construction* of the *building* and is necessary

- (a) for the *construction* of the *building* and is incidental to the other services provided by the *architect* or *professional engineer*, or
- (b) for coordination purposes.

Table 2.3.1.1.(4)

## Design and General Review

Forming Part of Sentence 2.3.1.1.(1)

<i>Building Classification by Major Occupancy</i>	<i>Building Description</i>	<i>Design and General Review by:</i>
<i>Assembly occupancy only</i>	<i>Every building</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
<i>Assembly occupancy and any other major occupancy except industrial</i>	<i>Every building</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
<i>Care or detention occupancy only</i>	<i>Every building</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
<i>Care or detention occupancy and any other major occupancy except industrial</i>	<i>Every building</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
<i>Residential occupancy only</i>	<i>Every building that exceeds 3 storeys in building height</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
	<i>Every building that exceeds 600 m<sup>2</sup> in gross area and that contains a residential occupancy other than a dwelling unit or dwelling units</i>	<i>Architect<sup>(2)</sup></i>
<i>Residential occupancy only</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area and contains a dwelling unit above another dwelling unit</i>	<i>Architect<sup>(2)</sup></i>
	<i>Every building that exceeds 600 m<sup>2</sup> in building area contains 3 or more dwelling units and has no dwelling unit above another dwelling unit</i>	<i>Architect<sup>(2)</sup></i>
<i>Residential occupancy and any other major occupancy except industrial, assembly or care or detention occupancy</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
<i>Business and personal services occupancy only</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
<i>Business and personal services occupancy and any other major occupancy except industrial, assembly or care or detention occupancy</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
<i>Mercantile occupancy only</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
<i>Mercantile occupancy and any other major occupancy except industrial, assembly or care or detention occupancy</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
<i>Industrial occupancy only and where there are no subsidiary occupancies</i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect or professional engineer<sup>(3)</sup></i>
<i>Industrial occupancy and one or more other major occupancies where the portion of the area occupied by one of the other major or subsidiary occupancies exceeds 600 m<sup>2</sup></i>	<i>The non-industrial portion of every building</i>	<i>Architect and professional engineer<sup>(1)</sup></i>
	<i>The industrial portion of every building</i>	<i>Architect or professional engineer<sup>(3)</sup></i>
<i>Industrial occupancy and one or more other major occupancies where no portion of the area occupied by one of the other major or subsidiary occupancies exceeds 600 m<sup>2</sup></i>	<i>Every building that exceeds 600 m<sup>2</sup> in gross area or 3 storeys in building height</i>	<i>Architect or professional engineer<sup>(3)</sup></i>
Column 1	2	3

## Notes To Table 2.3.1.1.

- (1) An architect shall provide services within the practice of architecture and a professional engineer shall provide the services within the practice of professional engineering.
- (2) An architect may engage a professional engineer to provide services within the practices of professional engineering.
- (3) Only a professional engineer may provide services within the practice of professional engineering.
- (4) Requirements for design and general review by an architect or professional engineer or a combination of both for the construction, enlargement or alteration of a building are set out in the Architects Act and the Professional Engineers Act.



(3) The requirement for an *architect* does not apply to the preparation or provision of a design for interior space for a *building*, including finishes, fixed or loose furnishings, equipment, fixtures and partitioning of space, and related exterior elements such as signs, finishes and glazed openings used for display purposes, that does not affect or is not likely to affect

- (a) the structural integrity,
- (b) a fire safety system or *fire separation*,
- (c) a main entrance or *public corridor* on a floor,
- (d) an *exit* to a public thoroughfare or to the exterior,
- (e) the *construction* or location of an exterior wall, or
- (f) the usable floor space through the addition of a *mezzanine*, infill or other similar element,

of the *building*.

(4) Where a *building* or part thereof described in Table 2.3.1.1. is designed by an *architect* or a *professional engineer* or a combination of both as required by this Article, all plans, sketches, drawings, graphic representations, specifications and other documents that are prepared by an *architect*, *professional engineer* or both and that form the basis for the issuance of a building permit or any changes thereto authorized by the *chief building official* shall bear the signature and seal of the *architect*, *professional engineer* or both, as applicable.

(5) Where the *foundations* of a *building* are to be constructed below the level of the footings of an adjacent *building* and within the angle of repose of the *soil*, as drawn from the bottom of the footings, the *foundations* shall be designed by a *professional engineer*.

(6) The thermal design of a *building* in accordance with Section 9.38. shall be prepared and provided by an *architect* or *professional engineer* or a combination of both.

## 2.3.2. General Review

### 2.3.2.1. General Review by Architect or Professional Engineer

(1) Except as permitted in Sentence (2), a person who intends to *construct* or have constructed a *building* required to be designed by an *architect*, *professional engineer* or both, shall ensure that an *architect*, *professional engineer* or both are retained to undertake the general review of the *construction* of the *building* in accordance with the performance standards of the Ontario Association of Architects or the Association of Professional Engineers of Ontario, as applicable, to determine whether the *construction* is in general conformity with the plans, sketches, drawings, graphic representations, specifications and other documents that are prepared by an *architect*, *professional engineer* or both and that form the basis for the issuance of a *building* permit or any changes thereto authorized by the *chief building official*; copies of written reports arising out of the general review shall be forwarded to the *chief building official* by the *architect*, *professional engineer* or both who have been retained to undertake the general review of the *construction* of the *building*.

(2) An *architect* or a *professional engineer* need not be retained to undertake the general review of *construction* of a *building* where the *building* is designed in accordance with Section 9.38.

### 2.3.2.2. Restriction for General Review

(1) Only an *architect* may carry out or provide the general review of the *construction* of a *building*

- (a) that is constructed in accordance with a design prepared or provided by an *architect*, or
- (b) in relation to services that are provided by an *architect* in connection with the design in accordance with which the *building* is constructed.

(2) Only a *professional engineer* may carry out or provide the general review of the *construction* of a *building*

- (a) that is constructed in accordance with a design prepared or provided by a *professional engineer*, or
- (b) in relation to services that are provided by a *professional engineer* in connection with the design in accordance with which the *building* is constructed.

### 2.3.2.3. Demolition of a Building

(1) The applicant for a permit respecting the *demolition* of a *building* shall retain a *professional engineer* to undertake the general review of the project during *demolition*, where

- (a) the *building* exceeds 3 storeys in *building height* or 600 m<sup>2</sup> in *building area*,
- (b) the *building* structure includes pre-tensioned or post-tensioned members,
- (c) it is proposed that the *demolition* will extend below the level of the footings of any adjacent *building* and occur within the angle of repose of the *soil*, drawn from the bottom of such footings, or
- (d) explosives or a laser are to be used during the course of *demolition*.

## Section 2.4. Permits and Inspections

### 2.4.1. Permits

#### 2.4.1.1. Requirement for Permits

(1) A person is exempt from the requirement to obtain a permit under Section 8 of the Act

- (a) for the *demolition* of a *building* located on a farm, or
- (b) for the *construction* or *demolition* of a *building* in territory without municipal organization.

(2) Where a permit is required for the *demolition* of a *building* in Sentence 2.3.2.3.(1), descriptions of the structural design characteristics of the *building* and the method of *demolition* shall be included in the application for a permit to demolish the *building*.

(3) No person shall commence *demolition* of a *building* or any part of a *building* before the *building* has been vacated by the occupants except where the safety of the occupants is not affected.

(4) A person is exempt from the requirement to obtain a permit under Section 10 of the Act for the change of use of a *building* in territory without municipal organization.

(5) A tent or group of tents is exempt from the requirement to obtain a permit under Section 8 of the Act and is exempt from compliance with the Code provided that the tent or group of tents are

- (a) not more than 60 m<sup>2</sup> in aggregate ground area,
- (b) not attached to a building, and
- (c) constructed more than 3 m from other structures.

**2.4.1.2. Permits Under Section 10 of the Act**

(1) Except as provided in Sentence (2), the following changes in use of a *building* or part of a *building* constitute an increase in hazard for the purposes of Section 10 of the Act and require a permit under Section 10 of the Act:

- (a) a change of the *major occupancy* of all or part of a *building* that is designated with a "Y" in Table 2.4.1.2. takes place,
- (b) a *suite* of a Group C *major occupancy* is converted into more than one *suite* of Group C *major occupancy*,
- (c) a *farm building* or part of a *farm building* is changed to a *major occupancy*, or
- (d) the use of a *building* or part of a *building* is changed and the previous *major occupancy* of the *building* or part of the *building* cannot be determined.

(2) A person is exempt from the requirement to obtain a permit under Section 10 of the Act where the change in use of the *building* or part of the *building* will result from proposed *construction* and a permit under Section 8 of the Act has been issued in respect of such *construction*.

**Table 2.4.1.2.****Permit Required for Change of Use**Forming Part of Sentence 2.4.1.2.(1)<sup>(1)</sup>

		FROM <sup>(2)</sup>												
		A-1	A-2	A-3	A-4	B-1	B-2	B-3	C	D	E	F-1	F-2	F-3
TO <sup>(3)</sup>	A-1	N <sup>(5)</sup>	Y	Y	N <sup>(5)</sup>	Y	Y	Y	Y	Y	Y	Y	Y	Y
	A-2	Y	N <sup>(5)</sup>	Y	N <sup>(5)</sup>	Y	Y	Y	Y	Y	Y	Y	Y	Y
	A-3	Y	Y	N <sup>(5)</sup>	N <sup>(5)</sup>	Y	Y	Y	Y	Y	Y	Y	Y	Y
	A-4	Y	Y	Y	N <sup>(5)</sup>	Y	Y	Y	Y	Y	Y	Y	Y	Y
	B-1	Y	Y	Y	N <sup>(5)</sup>	N <sup>(5)</sup>	Y	Y	Y	Y	Y	Y	Y	Y
	B-2	Y	Y	Y	N <sup>(5)</sup>	Y	N <sup>(5)</sup>	Y	Y	Y	Y	Y	Y	Y
	B-3	Y	Y	Y	N <sup>(5)</sup>	Y	N <sup>(5)</sup>	N <sup>(5)</sup>	Y	Y	Y	Y	Y	Y
	C	Y	Y	Y	N <sup>(5)</sup>	Y	N <sup>(5)</sup>	N <sup>(5)</sup>	(4)	Y	Y	Y	Y	Y
	D	N <sup>(5)</sup>	N <sup>(5)</sup>	Y	N <sup>(5)</sup>	Y	N <sup>(5)</sup>	N <sup>(5)</sup>	Y	N <sup>(5)</sup>	Y	Y	N <sup>(5)</sup>	N <sup>(5)</sup>
	E	Y	Y	Y	N <sup>(5)</sup>	Y	Y	Y	Y	Y	N <sup>(5)</sup>	Y	Y	Y
	F-1	Y	Y	Y	N <sup>(5)</sup>	Y	Y	Y	Y	Y	Y	N <sup>(5)</sup>	Y	Y
	F-2	Y	Y	Y	N <sup>(5)</sup>	Y	Y	Y	Y	Y	Y	N <sup>(5)</sup>	N <sup>(5)</sup>	Y
	F-3	Y	N <sup>(5)</sup>	Y	N <sup>(5)</sup>	Y	Y	Y	Y	N <sup>(5)</sup>	N <sup>(5)</sup>	N <sup>(5)</sup>	N <sup>(5)</sup>	N <sup>(5)</sup>

**Notes to Table 2.4.1.2.:**

(1) See Clauses 2.4.1.2.(1)(a), 3.15.1.1.(1)(a) and 9.41.1.1.(1)(a).

(2) *Major occupancy* of all or part of a *building* before change of use.

(3) *Major occupancy* of all or part of a *building* after change of use.

(4) See Clauses 2.4.1.2.(1)(b), 3.15.1.1.(1)(b), 9.41.1.1.(1)(b) and 11.4.2.3.(1)(b).

(5) "N" is only applicable where the major occupancy of the entire suite is changed.



2.4.1.3. Conditional Permits

(1) The *chief building official* shall not issue a conditional permit for any stage of *construction* under Subsection 8(3) of the Act unless compliance with the following *applicable laws* has been achieved in respect of the *construction* of the proposed *building*:

- (a) regulations made under Clause 28(1)(e) of the *Conservation Authorities Act*,
- (b) Subsection 5(3) of the *Environmental Assessment Act*,
- (c) Section 76 of the *Environmental Protection Act*,
- (d) Subsection 24(3) of the *Niagara Escarpment Planning and Development Act*,
- (e) Section 30, Subsections 33(1), 34(1) and Section 42 of the *Ontario Heritage Act*,
- (f) Subsection 4(1) and Section 6 of the *Rental Housing Protection Act*.

(2) For the purposes of issuing a conditional permit under Subsection 8(3) of the Act, a person is exempt from the requirement in Clause 8(3)(a) of the Act of compliance with by-laws passed under Sections 34 and 38 of the *Planning Act* where

- (a) a committee of adjustment has made a decision under Section 45 of the *Planning Act* authorizing one or more minor variances from the provisions of any by-laws made under Sections 34 and 38 of that Act,
- (b) such minor variance or variances result in the achievement of full compliance with such by-laws, and
- (c) no person informed the committee of adjustment of objections to the minor variances either in writing or in person at the hearing of the application.

(3) For the purposes of issuing a conditional permit under Subsection 8(3) of the Act, a person is exempt from the requirement in Clause 8(3)(a) of the Act of compliance with by-laws passed under Sections 34 and 38 of the *Planning Act* where the *construction* in respect of which the conditional permit is issued is required in order to comply with an order issued under s.18(2) of the *Fire Marshals Act* or under s.15(3) of the Act.

(4) A permit issued under Subsection 8(3) of the Act shall indicate its conditional nature.

2.4.2. Site Documents

2.4.2.1. Permit Posting

(1) Where a permit has been issued pursuant to the Act, the person to whom it is issued shall have the permit or a copy thereof posted at all times during *construction* or *demolition* in a conspicuous place on the property in respect of which the permit was issued.

2.4.2.2. Documentation on Site

(1) The person in charge of the *construction* of the *building* shall keep and maintain on the site of the *construction*

- (a) at least one copy of drawings and specifications certified by the *chief building official* or a person designated by the *chief building official* to be a copy of those submitted with the application for the permit to *construct* the *building*, together

with changes that are authorized by the *chief building official* or a person designated by the *chief building official*, and

- (b) authorization or facsimiles thereof received from the Building Materials Evaluation Commission, including specified terms and conditions.

2.4.3. Occupancy of Unfinished Building

2.4.3.1. Occupancy Permit

(1) Except as permitted in Sentence 2.4.3.2.(1), a person may occupy or permit to be occupied any *building* or part thereof that has not been fully completed at the date of occupation where the *chief building official* or a person designated by the *chief building official* has issued a permit authorizing occupation of the *building* or part thereof prior to its completion in accordance with Sentence (2).

(2) The *chief building official* or a person designated by the *chief building official* shall issue a permit authorizing occupation of a *building*, where

- (a) the structure of the *building* or part thereof is completed to the roof,
- (b) the enclosing walls of the *building* or part thereof are completed to the roof,
- (c) the walls enclosing the space to be occupied are completed, including balcony *guards*,
- (d) all required *fire separations* and *closures* are completed on all storeys to be occupied,
- (e) all required *exits* are completed and fire separated including all doors, door hardware, self-closing devices, balustrades and handrails from the uppermost floor to be occupied down to *grade* level and below if an *exit* connects with lower *storeys*,
- (f) all shafts including *closures* are completed to the floor-ceiling assembly above the *storey* to be occupied and have a temporary *fire separation* at such assembly,
- (g) measures have been taken to prevent access to parts of the building and site that are incomplete or still under *construction*,
- (h) floors, halls, lobbies and required *means of egress* are kept free of loose materials and other hazards,
- (i) if service rooms should be in operation, required *fire separations* are completed and all *closures* installed,
- (j) all *building drains*, *building sewers*, *water systems*, *drainage systems* and *venting systems* are complete and tested as operational for the *storeys* to be occupied,
- (k) required lighting, heating and electrical supply are provided for the *suites*, rooms and common areas to be occupied,
- (l) required lighting in corridors, stairways and *exits* is completed and operational up to and including all *storeys* to be occupied,

- (m) required standpipe, sprinkler and fire alarm systems are complete and operational up to and including all *storeys* to be occupied, together with required pumper connections for such standpipes and sprinklers,
- (n) required fire extinguishers have been installed on all *storeys* to be occupied,
- (o) main garbage rooms, chutes and ancillary services thereto are completed to *storeys* to be occupied, and
- (p) required fire fighting access routes have been provided and are accessible.

#### 2.4.3.2. Conditions for Residential Occupancy

(1) A person may occupy or permit to be occupied a *building* intended for *residential occupancy* that has not been fully completed at the date of occupation provided that

- (a) the *building*
  - (i) is not more than 3 *storeys* in *building height* and 600 m<sup>2</sup> in *building area*,
  - (ii) has not more than 1 *dwelling unit* above another *dwelling unit*,
  - (iii) has not more than 2 *dwelling units* sharing a common *means of egress*, and
  - (iv) has no accommodation for tourists,
- (b) the following *building* components and systems are complete, operational and inspected:
  - (i) required *exits*, handrails and *guards*, fire alarm and detection systems, and *fire separations*,
  - (ii) required exhaust fume barriers and self-closing devices on doors between an attached or built-in garage and a dwelling unit, and
  - (iii) water supply, sewage disposal, lighting and heating systems,
- (c) the following *building* components and systems are complete, operational, inspected and tested:
  - (i) *water systems*,
  - (ii) *building drains* and *building sewers*, and
  - (iii) *drainage systems* and *venting systems*, and
- (d) where applicable, the *building* conforms to Article 2.1.1.8.

#### 2.4.3.3. Notification

(1) Where a person has occupied or permitted the occupancy of a *building* under this Subsection, such person shall notify the *chief building official* forthwith upon completion of the *building*.

#### 2.4.4. Fire Department Inspection

##### 2.4.4.1. Fire Department Approval

(1) Where the council of a *municipality* assigns to an inspector who is the chief of the fire department of the municipality specific responsibility for the enforcement of any portion of this Code respecting fire safety matters, the *chief building official* shall not issue a permit to *construct* a *building* unless the inspector approves as complying with such portion of this Code the drawings submitted with the application for the permit.

#### 2.4.5. Notices to Chief Building Official

##### 2.4.5.1. Notices

(1) Where the council of a *municipality* passes a by-law under Clause 7(e) of the Act, the person to whom a permit has been issued shall notify the *chief building official*

- (a) of the commencement of the *construction* of the *building*,
- (b) of the readiness to *construct* the footings,
- (c) of the substantial completion of the footings and foundations,
- (d) where the *building* is within the scope of Part 9, of the substantial completion of
  - (i) structural framing,
  - (ii) insulation and vapour barriers, and
  - (iii) ductwork and piping for heating and *air-conditioning* systems,
- (e) where the *building* is within the scope of parts of this Code other than Part 9, of the substantial completion of
  - (i) structural framing of each *storey*,
  - (ii) insulation and vapour barriers, and
  - (iii) roughing-in of heating, ventilation, *air-conditioning* and air-contaminant extraction equipment,
- (f) of the commencement of the *construction* of
  - (i) masonry fireplaces and *masonry chimneys*,
  - (ii) factory-built fireplaces and allied *chimneys*,
  - (iii) *stoves*, *ranges*, *space heaters* and add-on *furnaces* using solid fuels and allied *chimneys*,
- (g) of the substantial completion of all required *fire separations* and *closures* and all fire protection systems including standpipe, sprinkler, fire alarm and emergency lighting systems,
- (h) of the substantial completion of interior finishes and heating, ventilating, *air-conditioning* and air-contaminant extraction equipment,



- (i) of the substantial completion of exterior cladding, fire access routes and site grading,
- (j) of the completion of construction and installation of components required to permit occupancy by Sentences 2.4.3.1.(2) and 2.4.3.2.(1),
- (k) of the readiness for inspection and testing of
  - (i) *building sewers and building drains*,
  - (ii) *water service pipes*,
  - (iii) *drainage systems and venting systems*,
  - (iv) *water distribution system*, and
  - (v) *plumbing fixtures and plumbing appliances*, and
- (l) of the completion and availability of drawings of the *building* as constructed.

#### **2.4.6. As Constructed Plans**

##### **2.4.6.1. Application**

(1) Where the council of a municipality has passed a by-law pursuant to Subsection 7(g) of the Act, the *chief building official* may require that *as constructed plans* for the whole of, or any part or system of, a *building* or any class of *buildings* be provided by the persons responsible for the *construction*.

#### **Section 2.5. Climatic Data**

##### **2.5.1. Climatic and Seismic Values**

###### **2.5.1.1. Design Values**

(1) The climatic and seismic values required for the design of *buildings* under this Code shall be in conformance with the values provided in Table 2.5.1.1.

Table 2.5.1.1.

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa	Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	z <sub>a</sub>	z <sub>v</sub>	Zonal velocity ratio, v		
	2½%, °C	1%, °C	Dry, °C	Wet, °C						Part 9, 0.6 <sup>(1)</sup> , kPa	Part 9, 0.5 <sup>(2)</sup> , kPa								
Ailsa Craig	-17	-19	30	23	4 000	25	95	950	2.0	0.4	1.60	1.40	0.40	0.50	0.62	0	0	0.00	
Ajax	-20	-22	30	23	4 000	23	85	825	0.9	0.4	0.94	0.85	0.43	0.52	0.64	1	1	0.05	
Alexandria	-24	-26	30	23	4 600	28	95	995	2.2	0.4	1.72	1.50	0.30	0.37	0.45	4	2	0.10	
Alliston	-23	-25	29	23	4 400	28	105	875	1.8	0.4	1.48	1.30	0.22	0.29	0.38	1	0	0.05	
Almonte	-26	-28	30	23	4 850	25	80	800	2.3	0.4	1.78	1.55	0.30	0.37	0.46	4	2	0.10	
Armstrong	-39	-42	28	21	7 050	23	90	725	2.5	0.4	1.90	1.65	0.21	0.25	0.29	0	0	0.00	
Arnprior	-27	-29	30	23	4 800	23	80	775	2.3	0.4	1.78	1.55	0.27	0.34	0.42	4	2	0.10	
Atikokan	-34	-37	29	22	6 100	25	95	760	2.2	0.3	1.62	1.40	0.21	0.25	0.29	0	0	0.00	
Aurora	-21	-23	30	23	4 300	28	100	800	1.8	0.4	1.48	1.30	0.30	0.39	0.50	1	0	0.05	
Bancroft	-27	-29	29	22	4 900	25	85	900	2.8	0.4	2.08	1.80	0.23	0.29	0.36	2	1	0.05	
Barrie	-24	-26	29	22	4 600	28	90	900	2.3	0.4	1.78	1.55	0.21	0.29	0.39	1	1	0.05	
Barriefield	-22	-24	27	23	4 250	23	105	950	1.9	0.4	1.54	1.35	0.35	0.43	0.52	2	1	0.05	
Beaverton	-24	-26	30	22	4 550	28	100	950	2.0	0.4	1.60	1.40	0.24	0.32	0.42	1	1	0.05	
Belleville	-22	-24	29	23	4 100	23	95	850	1.6	0.4	1.36	1.20	0.32	0.39	0.48	1	1	0.05	
Belmont	-17	-19	30	23	4 050	25	90	950	1.6	0.4	1.36	1.20	0.35	0.45	0.58	0	0	0.00	
Big Trout Lake	-38	-40	25	20	7 650	13	85	600	2.9	0.2	1.94	1.65	0.33	0.39	0.46	0	0	0.00	
Borden CFB	-23	-25	29	22	4 550	28	105	875	2.0	0.4	1.60	1.40	0.21	0.29	0.39	1	0	0.05	
Bracebridge	-26	-28	29	22	4 850	25	95	1 050	2.8	0.4	2.08	1.80	0.26	0.32	0.39	1	1	0.05	
Bradford	-23	-25	30	23	4 400	28	100	800	1.9	0.4	1.54	1.35	0.24	0.32	0.42	1	0	0.05	
Brampton	-19	-21	30	23	4 250	28	110	820	1.2	0.4	1.12	1.00	0.32	0.39	0.49	1	0	0.05	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

- (1) The composite load is 60% of the ground snow load plus the rain load.  
 (2) The composite load is 50% of the ground snow load plus the rain load.



Table 2.5.1.1. (Cont'd)

Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature			Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %					Ground Loads, kPa	Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	z <sub>s</sub>	z <sub>v</sub>	Zonal velocity ratio, v		
	2½%, °C	1%, °C	Dry, °C						Wet, °C	Part 9, 0.6 <sup>(1)</sup> , kPa							Part 9, 0.5 <sup>(2)</sup> , kPa	
																		S <sub>g</sub> , kPa
Brantford	-17	-19	30	23	3 950	23	95	850	1.2	0.4	1.12	1.00	0.31	0.37	0.44	1	0	0.05
Brighton	-21	-23	29	23	4 200	23	90	850	1.5	0.4	1.30	1.15	0.42	0.50	0.60	1	1	0.05
Brockville	-23	-25	29	23	4 275	25	95	975	2.0	0.4	1.60	1.40	0.32	0.39	0.49	3	1	0.05
Burks Falls	-26	-28	29	21	5 100	25	95	1 010	2.5	0.4	1.90	1.65	0.26	0.32	0.39	1	1	0.05
Burlington	-17	-19	31	23	3 775	23	95	850	0.8	0.4	0.88	0.80	0.36	0.43	0.51	1	0	0.05
Cambridge	-18	-20	29	23	4 150	25	105	890	1.5	0.4	1.30	1.15	0.26	0.32	0.39	1	0	0.05
Campbellford	-23	-26	30	23	4 450	25	90	850	1.6	0.4	1.36	1.20	0.29	0.37	0.47	1	1	0.05
Cannington	-24	-26	30	23	4 550	28	100	950	2.0	0.4	1.60	1.40	0.24	0.32	0.42	1	1	0.05
Carleton Place	-25	-27	30	23	4 800	25	80	850	2.3	0.4	1.78	1.55	0.30	0.37	0.46	4	2	0.10
Cavan	-22	-25	30	23	4 500	28	90	850	1.8	0.4	1.48	1.30	0.31	0.39	0.50	1	1	0.05
Centralia	-17	-19	30	23	4 100	25	95	1 000	2.1	0.4	1.66	1.45	0.37	0.48	0.60	0	0	0.00
Chapleau	-35	-38	27	21	6 200	23	90	850	3.7	0.4	2.62	2.25	0.19	0.25	0.31	0	0	0.00
Chatham	-16	-18	31	24	3 750	28	95	850	0.9	0.4	0.94	0.85	0.32	0.39	0.48	0	0	0.00
Chesley	-19	-21	29	22	4 500	28	95	1 125	2.6	0.4	1.96	1.70	0.33	0.43	0.55	1	0	0.05
Clinton	-17	-19	29	23	4 150	23	95	1 000	2.4	0.4	1.84	1.60	0.37	0.48	0.60	0	0	0.00
Coboconk	-25	-27	29	22	4 750	25	100	950	2.3	0.4	1.78	1.55	0.26	0.32	0.39	1	1	0.05
Cobourg	-21	-23	30	23	4 100	23	90	825	1.1	0.4	1.06	0.95	0.46	0.55	0.65	1	1	0.05
Cochrane	-34	-36	29	21	6 400	20	80	875	2.6	0.3	1.86	1.60	0.26	0.32	0.39	1	0	0.05
Colborne	-21	-23	29	23	4 100	23	80	850	1.5	0.4	1.30	1.15	0.44	0.52	0.62	1	1	0.05
Collingwood	-22	-24	29	22	4 300	28	95	950	2.5	0.4	1.90	1.65	0.25	0.34	0.45	1	0	0.05
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

Notes:

- (1) The composite load is 60% of the ground snow load plus the rain load.  
 (2) The composite load is 50% of the ground snow load plus the rain load.

Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min. Rain, mm	One Day Rain, mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	z <sub>s</sub>	z <sub>v</sub>	Zonal velocity ratio, v	
	2½%, °C	1½, °C	Dry, °C	Wet, °C															
Cornwall	-23	-25	30	23	4 350	28	95	960	2.0	0.4	1.60	1.40	0.30	0.37	0.46	4	2	0.10	
Corunna	-16	-18	31	23	3 800	23	90	800	0.9	0.4	0.94	0.85	0.35	0.43	0.52	0	0	0.00	
Deep River	-29	-32	30	22	5 050	23	85	850	2.3	0.4	1.78	1.55	0.26	0.32	0.39	4	2	0.10	
Deseronto	-22	-24	28	23	4 200	23	90	900	1.7	0.4	1.42	1.25	0.32	0.39	0.48	1	1	0.05	
Dorchester	-18	-20	30	23	4 100	28	95	950	1.7	0.4	1.42	1.25	0.33	0.43	0.55	0	0	0.00	
Dorion	-33	-35	28	21	5 950	20	95	725	2.6	0.4	1.96	1.70	0.30	0.36	0.43	0	0	0.00	
Dresden	-16	-18	31	24	3 750	28	90	820	0.9	0.4	0.94	0.85	0.32	0.39	0.48	0	0	0.00	
Dryden	-34	-36	27	22	6 000	25	90	700	2.2	0.3	1.62	1.40	0.21	0.25	0.29	0	0	0.00	
Dunnville	-15	-17	30	24	3 900	23	110	950	1.8	0.4	1.48	1.30	0.33	0.39	0.45	1	0	0.05	
Durham	-20	-22	29	22	4 700	28	95	1 025	2.6	0.4	1.96	1.70	0.31	0.39	0.50	1	0	0.05	
Dutton	-16	-18	31	24	3 900	28	85	925	1.2	0.4	1.12	1.00	0.34	0.43	0.53	0	0	0.00	
Earlton	-33	-36	30	21	5 900	23	85	820	2.4	0.4	1.84	1.60	0.32	0.40	0.51	1	1	0.05	
Edison	-34	-36	28	22	5 950	25	100	680	2.2	0.3	1.62	1.40	0.23	0.28	0.34	0	0	0.00	
Elmvale	-24	-26	29	22	4 400	28	90	950	2.4	0.4	1.84	1.60	0.24	0.32	0.42	1	1	0.05	
Embro	-18	-20	29	23	4 200	28	110	950	1.8	0.4	1.48	1.30	0.33	0.43	0.54	0	0	0.00	
Englehart	-33	-36	30	21	6 000	23	85	880	2.3	0.4	1.78	1.55	0.29	0.37	0.47	1	1	0.05	
Espanola	-25	-27	28	21	5 200	23	100	840	2.1	0.4	1.66	1.45	0.28	0.37	0.48	1	0	0.05	
Exeter	-17	-19	30	23	4 150	25	105	975	2.2	0.4	1.72	1.50	0.37	0.48	0.60	0	0	0.00	
Fenelon																			
Falls	-25	-27	30	23	4 650	25	100	950	2.1	0.4	1.66	1.45	0.25	0.32	0.41	1	1	0.05	
Fergus	-20	-22	29	23	4 600	33	100	925	2.0	0.4	1.60	1.40	0.26	0.32	0.40	1	0	0.05	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

- (1) The composite load is 60% of the ground snow load plus the rain load.  
 (2) The composite load is 50% of the ground snow load plus the rain load.



Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	z <sub>s</sub>	z <sub>v</sub>	Zonal velocity ratio, v	
	2½%, °C	1%, °C	Dry, °C	Wet, °C															
									S <sub>s</sub> , kPa	S <sub>r</sub> , kPa	Part 9, 0.6 <sup>(1)</sup> , kPa	Part 9, 0.5 <sup>(2)</sup> , kPa							
Forest	-16	-18	31	23	3 850	23	95	875	1.8	0.4	1.48	1.30	0.39	0.48	0.58	0	0	0.00	
Fort Erie	-15	-17	30	24	3 800	23	105	1 020	2.4	0.4	1.84	1.60	0.36	0.43	0.50	2	0	0.05	
Fort Erie (Ridgeway)	-15	-17	30	24	3 750	28	105	1 000	2.3	0.4	1.78	1.55	0.37	0.43	0.50	2	0	0.05	
Fort Fances	-33	-35	29	22	5 550	25	100	725	2.1	0.3	1.56	1.35	0.23	0.28	0.34	0	0	0.00	
Gananoque	-22	-24	28	23	4 200	23	95	900	1.9	0.4	1.54	1.35	0.35	0.43	0.52	2	1	0.05	
Geraldton	-35	-38	28	21	6 800	20	80	725	2.7	0.4	2.02	1.75	0.21	0.25	0.30	0	0	0.00	
Glencoe	-16	-18	31	24	3 900	28	95	925	1.4	0.4	1.24	1.10	0.31	0.39	0.49	0	0	0.00	
Goderich	-16	-18	29	23	4 000	23	85	950	2.2	0.4	1.72	1.50	0.40	0.50	0.62	0	0	0.00	
Gore Bay	-23	-25	29	21	4 900	23	85	860	2.4	0.4	1.84	1.60	0.30	0.36	0.43	0	0	0.00	
Graham	-37	-40	29	22	6 400	23	90	750	2.4	0.3	1.74	1.50	0.21	0.25	0.29	0	0	0.00	
Gravenhurst	-26	-28	29	22	4 800	25	114	1 020	2.5	0.4	1.90	1.65	0.19	0.25	0.33	1	1	0.05	
Gravenhurst (Muskoka Airport)	-26	-28	29	22	4 750	25	95	1 050	2.5	0.4	1.90	1.65	0.26	0.32	0.39	1	1	0.05	
Grimsbys	-16	-18	30	23	3 650	23	100	875	0.8	0.4	0.88	0.80	0.36	0.43	0.50	1	0	0.05	
Guelph	-19	-21	29	23	4 350	28	105	875	1.7	0.4	1.42	1.25	0.25	0.30	0.36	1	0	0.05	
Guthrie	-24	-26	29	22	4 550	28	95	950	2.3	0.4	1.78	1.55	0.21	0.29	0.39	1	1	0.05	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

- (1) The composite load is 60% of the ground snow load plus the rain load.  
 (2) The composite load is 50% of the ground snow load plus the rain load.

Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa		Composite Load, kPa	1/10, kPa	1/30, kPa	1/100, kPa	z <sub>s</sub>	z <sub>v</sub>	Zonal velocity ratio, v		
	2½%, °C	1%, °C	Dry, °C	Wet, °C					Snow S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa									
											0.6 <sup>(1)</sup> , kPa	Part 9, 0.5 <sup>(2)</sup> , kPa							
Haileybury	-32	-35	30	21	5 600	23	85	820	2.2	0.4			1.72	1.50	0.32	0.39	0.49	2	1
Haldimand (Caledon)	-17	-19	30	23	3 900	23	100	875	1.1	0.4	1.06	0.95	0.31	0.37	0.44	1	0	0.05	
Haldimand (Hagersville)	-16	-18	30	23	4 000	25	90	875	1.2	0.4	1.12	1.00	0.33	0.39	0.46	1	0	0.05	
Haliburton	-27	-29	29	22	4 950	25	85	980	2.7	0.4	2.02	1.75	0.26	0.32	0.39	1	1	0.05	
Halton Hills (Georgetown)	-19	-21	30	23	4 300	28	110	850	1.3	0.4	1.18	1.05	0.27	0.34	0.42	1	0	0.05	
Hamilton	-17	-19	31	23	3 600	23	100	875	0.8	0.4	0.88	0.80	0.36	0.43	0.50	1	0	0.05	
Hanover .	-19	-21	30	22	4 600	28	100	1 050	2.4	0.4	1.84	1.60	0.34	0.43	0.54	1	0	0.05	
Hastings	-23	-26	30	23	4 450	28	85	840	1.8	0.4	1.48	1.30	0.29	0.37	0.47	1	1	0.05	
Hawkesbury	-25	-27	30	23	4 750	23	95	925	2.1	0.4	1.66	1.45	0.31	0.37	0.45	4	2	0.10	
Hearst .	-34	-36	28	21	6 500	20	75	825	2.6	0.3	1.86	1.60	0.20	0.25	0.32	0	0	0.00	
Honey Harbour	-24	-26	29	22	4 300	23	90	1 050	2.5	0.4	1.90	1.65	0.25	0.34	0.45	1	1	0.05	
Hornepayne	-37	-40	28	21	6 500	20	90	750	3.3	0.4	2.38	2.05	0.19	0.25	0.31	0	0	0.00	
Huntsville	-26	-29	29	22	4 900	25	95	1 000	2.7	0.4	2.02	1.75	0.26	0.32	0.39	1	1	0.05	
Ingersoll	-18	-20	30	23	4 100	28	100	950	1.6	0.4	1.36	1.20	0.33	0.43	0.54	0	0	0.00	
Iroquois Falls .	-33	-36	29	21	6 300	20	80	825	2.7	0.3	1.92	1.65	0.30	0.37	0.45	1	0	0.05	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

- (1) The composite load is 60% of the ground snow load plus the rain load.  
 (2) The composite load is 50% of the ground snow load plus the rain load.



Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	z <sub>s</sub>	z <sub>v</sub>	Zonal velocity ratio, v	
	2½%, °C	1%, °C	Dry, °C	Wet, °C															
Jelicoe	-36	-39	28	21	6 600	20	80	750	2.5	0.4	1.90	1.65	0.21	0.25	0.29	0	0	0.00	
Kapuskasing	-33	-35	28	21	6 450	20	80	825	2.6	0.3	1.86	1.60	0.23	0.28	0.34	0	0	0.00	
Kemptville	-25	-27	30	23	4 650	25	80	925	2.1	0.4	1.66	1.45	0.30	0.37	0.46	4	2	0.10	
Kenora	-33	-36	28	22	5 850	25	105	630	2.1	0.3	1.56	1.35	0.23	0.28	0.34	0	0	0.00	
Killaloe	-28	-31	30	22	5 100	23	80	825	2.5	0.4	1.90	1.65	0.26	0.32	0.39	3	1	0.05	
Kincardine	-17	-19	28	22	4 100	23	85	950	2.4	0.4	1.84	1.60	0.40	0.50	0.62	0	0	0.00	
Kingston	-22	-24	27	23	4 300	23	105	950	1.9	0.4	1.54	1.35	0.35	0.43	0.52	2	1	0.05	
Kinmount	-26	-28	29	22	4 800	25	100	950	2.5	0.4	1.90	1.65	0.26	0.32	0.39	1	1	0.05	
Kirkland Lake	-33	-36	30	21	6 100	20	95	875	2.7	0.3	1.92	1.65	0.29	0.37	0.46	1	1	0.05	
Kitchener	-19	-21	29	23	4 250	28	110	925	1.8	0.4	1.48	1.30	0.27	0.34	0.42	1	0	0.05	
Lakefield	-24	-26	30	23	4 550	28	85	850	2.0	0.4	1.60	1.40	0.27	0.34	0.43	1	1	0.05	
Lansdowne House	-39	-41	28	21	7 150	18	90	680	2.7	0.2	1.82	1.55	0.24	0.29	0.35	0	0	0.00	
Leamington	-15	-17	31	24	3 600	28	105	875	0.7	0.4	0.82	0.75	0.35	0.43	0.52	0	0	0.00	
Lindsay	-24	-26	30	23	4 550	25	95	850	2.1	0.4	1.66	1.45	0.26	0.34	0.43	1	1	0.05	
Lion's Head	-19	-21	27	22	4 300	25	100	950	2.5	0.4	1.90	1.65	0.33	0.43	0.54	1	0	0.05	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

- (1) The composite load is 60% of the ground snow load plus the rain load.  
 (2) The composite load is 50% of the ground snow load plus the rain load.

Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	z <sub>s</sub>	z <sub>v</sub>	Zonal velocity ratio, v	
	2½%, °C	1%, °C	Dry, °C	Wet, °C															
Listowel	-19	-21	29	23	4 500	30	110	1 000	2.4	0.4	1.84	1.60	0.34	0.43	0.53	1	0	0.05	
London	-18	-20	30	23	4 150	28	95	975	1.7	0.4	1.42	1.25	0.36	0.48	0.61	0	0	0.00	
Lucan	-17	-19	30	23	4 150	25	105	1 000	2.1	0.4	1.66	1.45	0.39	0.50	0.63	0	0	0.00	
Maitland	-23	-25	29	23	4 200	25	95	975	2.0	0.4	1.60	1.40	0.32	0.39	0.49	3	1	0.05	
Markdale	-20	-22	29	22	4 600	28	95	1 050	3.1	0.4	2.26	1.95	0.29	0.37	0.47	1	0	0.05	
Markham	-20	-22	31	24	4 200	25	80	825	1.2	0.4	1.12	1.00	0.39	0.48	0.59	1	0	0.05	
Martin	-36	-39	29	22	6 200	25	95	750	2.4	0.3	1.74	1.50	0.21	0.25	0.29	0	0	0.00	
Matheson	-33	-36	29	21	6 250	20	80	825	2.6	0.3	1.86	1.60	0.30	0.37	0.46	1	1	0.05	
Mattawa	-29	-31	30	22	5 300	23	80	875	1.9	0.4	1.54	1.35	0.24	0.29	0.35	3	1	0.05	
Midland	-23	-26	29	22	4 300	25	90	1 060	2.5	0.4	1.90	1.65	0.25	0.34	0.45	1	1	0.05	
Milton	-18	-20	30	23	4 100	25	110	850	1.2	0.4	1.12	1.00	0.32	0.39	0.48	1	0	0.05	
Milverton	-19	-21	29	23	4 450	30	100	1 050	2.2	0.4	1.72	1.50	0.31	0.39	0.49	1	0	0.05	
Minden	-26	-29	29	22	4 900	25	90	1 010	2.5	0.4	1.90	1.65	0.26	0.32	0.39	1	1	0.05	
Mississauga	-18	-20	30	23	3 950	25	105	800	1.0	0.4	1.00	0.90	0.37	0.45	0.55	1	0	0.05	
Mississauga (PortCredit)	-18	-20	30	23	3 800	25	100	800	0.8	0.4	0.88	0.80	0.37	0.45	0.55	1	0	0.05	
Mitchell	-18	-20	29	23	4 400	28	105	1 050	2.2	0.4	1.72	1.50	0.35	0.45	0.57	0	0	0.00	
Moosonee	-36	-38	28	21	7 100	18	75	700	2.0	0.3	1.50	1.30	0.26	0.32	0.39	0	0	0.00	
Morrisburg	-23	-25	30	23	4 550	25	100	950	2.1	0.4	1.66	1.45	0.30	0.37	0.46	4	2	0.10	
Mount Forest	-21	-23	29	22	4 750	30	95	940	2.5	0.4	1.90	1.65	0.29	0.37	0.47	1	0	0.05	
Nakina	-35	-37	28	21	6 900	20	80	750	2.6	0.4	1.96	1.70	0.21	0.25	0.30	0	0	0.00	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

- (1) The composite load is 60% of the ground snow load plus the rain load.  
 (2) The composite load is 50% of the ground snow load plus the rain load.



Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature			Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %					Ground Loads, kPa	Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	Z <sub>a</sub>	Z <sub>v</sub>	Zonal velocity ratio, v		
	2½%, °C	1%, °C	Dry, °C						Wet, °C	Part 9, 0.6 <sup>(1)</sup> , kPa							Part 9, 0.5 <sup>(2)</sup> , kPa	
																		S <sub>s</sub> , kPa
Nanticoke (Jarvis)	-16	-18	30	23	4 000	28	100	900	1.3	0.4	1.18	1.05	0.33	0.39	0.47	1	0	0.05
Nanticoke (PortDover)	-15	-17	30	24	3 900	25	100	950	1.1	0.4	1.06	0.95	0.36	0.43	0.51	1	0	0.05
Napanee	-22	-24	28	23	4 250	23	85	900	1.7	0.4	1.42	1.25	0.32	0.39	0.48	2	1	0.05
Newcastle	-20	-22	30	23	4 200	23	80	830	1.4	0.4	1.24	1.10	0.46	0.55	0.65	1	1	0.05
Newcastle (Bowmanville)	-20	-22	30	23	4 200	23	80	830	1.3	0.4	1.18	1.05	0.46	0.55	0.66	1	1	0.05
NewLiskeard	-32	-35	30	21	5 700	23	85	810	2.1	0.4	1.66	1.45	0.31	0.39	0.49	2	1	0.05
Newmarket	-22	-24	30	23	4 400	28	100	800	1.8	0.4	1.48	1.30	0.26	0.34	0.44	1	1	0.05
Niagara Falls	-16	-18	30	23	3 700	23	95	950	1.8	0.4	1.48	1.30	0.33	0.39	0.47	2	0	0.05
North Bay	-28	-30	28	21	5 300	28	90	975	2.0	0.4	1.60	1.40	0.26	0.31	0.37	2	1	0.05
Norwood	-24	-26	30	23	4 500	28	85	850	1.9	0.4	1.54	1.35	0.29	0.37	0.47	1	1	0.05
Oakville	-18	-20	30	23	3 800	23	90	850	0.8	0.4	0.88	0.80	0.37	0.45	0.54	1	0	0.05
Orangeville	-21	-23	29	23	4 600	30	100	875	2.1	0.4	1.66	1.45	0.25	0.32	0.41	1	0	0.05
Orillia	-25	-27	29	22	4 600	25	95	1 000	2.2	0.4	1.72	1.50	0.26	0.32	0.39	1	1	0.05
Oshawa	-19	-21	30	23	4 000	23	80	875	1.3	0.4	1.18	1.05	0.43	0.52	0.64	1	1	0.05
Ottawa	-25	-27	30	23	4 600	23	80	900	2.2	0.4	1.72	1.50	0.30	0.37	0.46	4	2	0.10
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

## Notes:

- (1) The composite load is 60% of the ground snow load plus the rain load.  
 (2) The composite load is 50% of the ground snow load plus the rain load.

Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa	Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	z <sub>a</sub>	z <sub>v</sub>	Zonal velocity ratio, v		
	2½%, °C	1%, °C	Dry, °C	Wet, °C						Part 9, 0.6 <sup>(1)</sup> , kPa	Part 9, 0.5 <sup>(2)</sup> , kPa								
Owen Sound	-19	-21	29	22	4 250	28	110	1 075	2.6	0.4	1.96	1.70	0.33	0.43	0.55	1	0	0.05	
Pagwa River	-34	-36	28	21	6 600	20	90	825	2.2	0.4	1.72	1.50	0.19	0.25	0.31	0	0	0.00	
Paris . .	-17	-19	30	23	4 100	23	85	925	1.3	0.4	1.18	1.05	0.31	0.37	0.45	1	0	0.05	
Parkhill	-16	-18	31	23	4 000	23	95	925	1.9	0.4	1.54	1.35	0.40	0.50	0.61	0	0	0.00	
Parry Sound	-24	-26	28	21	4 700	23	95	1 050	2.6	0.4	1.96	1.70	0.24	0.34	0.46	1	1	0.05	
Pelham	-15	-17	30	23	3 800	23	95	950	2.1	0.4	1.66	1.45	0.33	0.39	0.46	1	0	0.05	
(Fonthill)	-28	-31	30	22	5 000	23	100	825	2.3	0.4	1.78	1.55	0.26	0.32	0.39	4	2	0.10	
Pembroke	-23	-26	29	22	4 300	25	90	1 050	2.6	0.4	1.96	1.70	0.25	0.34	0.45	1	1	0.05	
Penetanguishene	-25	-27	30	23	4 650	25	85	900	2.1	0.4	1.66	1.45	0.29	0.37	0.46	3	1	0.05	
Perth . .	-29	-31	30	22	5 150	23	85	825	2.4	0.4	1.84	1.60	0.26	0.32	0.39	4	2	0.10	
Petawawa	-23	-25	-25	30	23	4 400	28	85	840	1.8	0.4	1.48	1.30	0.29	0.37	0.47	1	0.05	
Peterborough	-16	-18	-18	31	24	3 850	25	100	920	1.2	0.4	1.12	1.00	0.35	0.43	0.52	0	0.00	
Petrolia	-19	-21	-21	30	23	4 000	23	85	825	0.9	0.4	0.94	0.85	0.43	0.52	0.64	1	0.05	
Pickering	-21	-23	-23	29	23	4 050	23	85	940	1.8	0.4	1.48	1.30	0.37	0.45	0.54	1	0.05	
(Dunbarton)	-18	-20	-20	29	23	4 200	28	95	950	1.7	0.4	1.42	1.25	0.30	0.37	0.46	0	0.05	
Pictou .																			
Plattsville																			
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

- (1) The composite load is 60% of the ground snow load plus the rain load.  
 (2) The composite load is 50% of the ground snow load plus the rain load.



Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature			Degree Days Below 18°C	15 Min. Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data	
	January		July 2½ %					Ground Loads, kPa		Composite Load, kPa	1/10, 1/30, 1/100, kPa			z <sub>a</sub>	z <sub>v</sub>	Zonal velocity ratio, v	
	2½%, °C	1%, °C	Dry, °C					Wet, °C	Snow S <sub>s</sub> , kPa		Rain S <sub>r</sub> , kPa	Part 9, 0.6 <sup>(1)</sup> , kPa	Part 9, 0.5 <sup>(2)</sup> , kPa				
Point Alexander	-29	-32	30	22	5 050	23	850	2.3	0.4	1.78	1.55	0.26	0.32	0.39	4	2	0.10
PortBurwell Port	-15	-17	30	24	4 000	25	1 000	1.1	0.4	1.06	0.95	0.34	0.43	0.53	0	0	0.00
Colborne	-15	-17	30	24	3 750	23	1 000	2.1	0.4	1.66	1.45	0.37	0.43	0.50	1	0	0.05
Port Elgin	-17	-19	28	22	4 250	23	850	2.6	0.4	1.96	1.70	0.40	0.50	0.62	1	0	0.05
Port Hope	-21	-23	30	23	4 050	23	825	1.1	0.4	1.06	0.95	0.46	0.55	0.65	1	1	0.05
Port Perry	-22	-24	30	23	4 350	25	850	2.2	0.4	1.72	1.50	0.31	0.39	0.50	1	1	0.05
PortStanley	-15	-17	31	24	4 000	25	975	1.1	0.4	1.06	0.95	0.34	0.43	0.53	0	0	0.00
Prescott	-23	-25	29	23	4 250	25	975	2.0	0.4	1.60	1.40	0.32	0.39	0.49	3	2	0.10
Princeton	-17	-19	29	23	4 100	25	925	1.4	0.4	1.24	1.10	0.30	0.37	0.46	1	0	0.05
Raith . . Rayside-	-35	-37	28	22	6 150	20	750	2.5	0.4	1.90	1.65	0.21	0.25	0.29	0	0	0.00
Balfour (Chelmsford)	-28	-30	29	21	5 400	25	850	2.3	0.4	1.78	1.55	0.29	0.39	0.53	1	0	0.05
Red Lake	-34	-36	28	22	6 350	18	630	2.2	0.3	1.62	1.40	0.22	0.26	0.31	0	0	0.00
Renfrew .	-27	-30	30	23	4 900	23	810	2.3	0.4	1.78	1.55	0.26	0.32	0.39	4	2	0.10
Richmond Hill . .	-20	-22	31	24	4 200	25	850	1.4	0.4	1.24	1.10	0.39	0.48	0.59	1	0	0.05
Rockland	-26	-28	30	23	4 800	23	950	2.2	0.4	1.72	1.50	0.30	0.37	0.45	4	2	0.10
Column 1	2	3	4	5	6	7	9	10	11	12	13	14	15	16	17	18	19

## Notes:

(1) The composite load is 60% of the ground snow load plus the rain load.

(2) The composite load is 50% of the ground snow load plus the rain load.

Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa	Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	z <sub>s</sub>	z <sub>v</sub>	Zonal velocity ratio, v		
	2½%, °C	1%, °C	Dry, °C	Wet, °C						Snow S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa							Part 9, 0.6 <sup>(1)</sup> , kPa	Part 9, 0.5 <sup>(2)</sup> , kPa
Sarnia	-16	-18	31	23	3 950	23	95	825	1.0	0.4	1.00	0.90	0.35	0.43	0.52	0	0	0.00	
Sault Ste. Marie	-25	-28	29	21	5 100	25	95	950	2.8	0.4	2.08	1.80	0.32	0.37	0.43	0	0	0.00	
Schreiber	-35	-38	27	21	6 200	20	100	850	3.0	0.4	2.20	1.90	0.30	0.36	0.43	0	0	0.00	
Seaforth	-17	-19	30	23	4 300	25	100	1 025	2.3	0.4	1.78	1.55	0.37	0.48	0.60	0	0	0.00	
Simcoe	-17	-19	30	23	4 000	28	110	950	1.2	0.4	1.12	1.00	0.33	0.39	0.47	1	0	0.05	
Sioux Lookout	-34	-36	28	22	6 200	28	90	710	2.2	0.3	1.62	1.40	0.21	0.25	0.29	0	0	0.00	
Smith Falls	-25	-27	30	23	4 600	28	85	850	2.1	0.4	1.66	1.45	0.29	0.37	0.46	3	2	0.10	
Smithville	-16	-18	30	23	3 800	23	110	900	1.4	0.4	1.24	1.10	0.33	0.39	0.46	1	0	0.05	
Smooth Rock Falls	-34	-36	29	21	6 400	20	85	850	2.5	0.3	1.80	1.55	0.24	0.29	0.36	1	0	0.05	
Southampton	-17	-19	28	22	4 250	23	85	830	2.5	0.4	1.90	1.65	0.38	0.48	0.59	1	0	0.05	
South River	-27	-29	28	21	5 200	28	90	975	2.6	0.4	1.96	1.70	0.23	0.29	0.36	1	1	0.05	
St. Catharines	-16	-18	30	23	3 675	23	85	850	0.9	0.4	0.94	0.85	0.36	0.43	0.50	1	0	0.05	
St. Marys	-18	-20	30	23	4 250	28	100	1 025	2.0	0.4	1.60	1.40	0.35	0.45	0.58	0	0	0.00	
St. Thomas	-16	-18	31	23	4 000	25	100	975	1.3	0.4	1.18	1.05	0.33	0.43	0.54	0	0	0.00	
Stirling	-23	-25	30	23	4 450	25	90	850	1.6	0.4	1.36	1.20	0.28	0.36	0.46	1	1	0.05	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

(1) The composite load is 60% of the ground snow load plus the rain load.

(2) The composite load is 50% of the ground snow load plus the rain load.



Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa		Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	z <sub>a</sub>	z <sub>v</sub>	Zonal velocity ratio, v	
	2½%, °C	1%, °C	Dry, °C	Wet, °C															
										S <sub>s</sub> , kPa	Rain S <sub>r</sub> , kPa	Part 9, 0.6 <sup>(1)</sup> , kPa	Part 9, 0.5 <sup>(2)</sup> , kPa						
Stratford	-18	-20	29	23	4 350	28	115	1 050	2.1	0.4	1.66	1.45	0.33	0.43	0.54	0	0	0.00	
Strathroy	-17	-19	31	23	3 950	25	95	950	1.7	0.4	1.42	1.25	0.36	0.45	0.57	0	0	0.00	
Sturgeon Falls	-27	-29	29	21	5 250	28	90	910	2.0	0.4	1.60	1.40	0.25	0.32	0.40	1	1	0.05	
Sudbury	-28	-30	29	21	5 400	25	90	875	2.3	0.4	1.78	1.55	0.29	0.40	0.55	1	1	0.05	
Sundridge	-27	-29	28	21	5 200	28	90	975	2.6	0.4	1.96	1.70	0.23	0.29	0.37	2	1	0.05	
Tavistock	-18	-20	29	23	4 350	28	115	1 010	1.9	0.4	1.54	1.35	0.34	0.43	0.53	1	0	0.05	
Temagami	-30	-33	30	21	5 400	25	85	875	2.4	0.4	1.84	1.60	0.27	0.34	0.42	2	1	0.05	
Thamesford	-18	-20	30	23	4 200	28	100	975	1.7	0.4	1.42	1.25	0.33	0.43	0.55	0	0	0.00	
Thedford	-16	-18	31	23	3 900	23	95	900	1.9	0.4	1.54	1.35	0.41	0.50	0.61	0	0	0.00	
Thunder Bay	-31	-33	28	21	5 650	20	100	710	2.7	0.4	2.02	1.75	0.30	0.36	0.43	0	0	0.00	
Tillsonburg	-17	-19	30	23	4 000	25	95	980	1.2	0.4	1.12	1.00	0.31	0.39	0.50	0	0	0.00	
Timmins	-34	-36	30	21	6 200	18	95	875	2.8	0.3	1.98	1.70	0.25	0.32	0.40	1	0	0.05	
Timmins (Porcupine)	-34	-36	30	21	6 200	18	90	875	2.7	0.3	1.92	1.65	0.27	0.34	0.42	1	0	0.05	
Timmins (South)																			
(Porcupine)	-34	-36	30	21	6 200	18	76	820	2.7	0.3	1.92	1.65	0.27	0.34	0.42	1	0	0.05	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

(1) The composite load is 60% of the ground snow load plus the rain load.

(2) The composite load is 50% of the ground snow load plus the rain load.

Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa	Composite Load, kPa	1/10, kPa	1/30, kPa	1/100, kPa	z <sub>s</sub>	z <sub>v</sub>	Zonal velocity ratio, v			
	2½%, °C	1½, °C	Dry, °C	Wet, °C															
Toronto/ Metropolitan	-20	-22	31	24	4 050	26	95	800	1.0	0.4	1.00	0.90	0.39	0.48	0.59	1	0	0.05	
Etobicoke	-20	-22	31	24	4 000	25	95	850	1.1	0.4	1.06	0.95	0.39	0.48	0.59	1	0	0.05	
North York	-20	-22	31	24	4 000	25	85	825	1.1	0.4	1.06	0.95	0.39	0.48	0.59	1	0	0.05	
Scarborough	-18	-20	31	23	3 650	25	90	820	0.8	0.4	0.88	0.80	0.39	0.48	0.58	1	0	0.05	
Toronto	-21	-23	29	23	4 250	23	95	850	1.5	0.4	1.30	1.15	0.35	0.43	0.52	1	1	0.05	
Trenton																			
Trout Creek	-27	-29	28	21	5 300	28	95	975	2.5	0.4	1.90	1.65	0.24	0.29	0.36	2	1	0.05	
Uxbridge	-22	-24	30	23	4 400	25	95	850	2.2	0.4	1.72	1.50	0.29	0.37	0.48	1	1	0.05	
Vaughan	-20	-22	31	24	4 250	26	105	800	1.0	0.4	1.00	0.90	0.39	0.48	0.59	1	0	0.05	
(Woodbridge)																			
Vittoria	-15	-17	30	24	3 925	25	115	950	1.2	0.4	1.12	1.00	0.35	0.43	0.52	1	0	0.05	
Walkerton	-18	-20	30	22	4 500	28	105	1 025	2.5	0.4	1.90	1.65	0.35	0.45	0.57	1	0	0.05	
Wallaceburg	-16	-18	31	24	3 700	28	90	825	0.8	0.4	0.88	0.80	0.32	0.39	0.48	0	0	0.00	
Waterloo	-19	-21	29	23	4 300	28	110	925	1.8	0.4	1.48	1.30	0.27	0.34	0.42	1	0	0.05	
Watford .	-16	-18	31	24	3 900	25	100	950	1.7	0.4	1.42	1.25	0.34	0.43	0.53	0	0	0.00	
Wawa . .	-35	-38	26	21	5 800	20	95	950	3.8	0.4	2.68	2.30	0.30	0.36	0.43	0	0	0.00	
Welland .	-15	-17	30	23	3 800	23	95	975	2.0	0.4	1.60	1.40	0.33	0.39	0.47	1	0	0.05	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

(1) The composite load is 60% of the ground snow load plus the rain load.

(2) The composite load is 50% of the ground snow load plus the rain load.



Table 2.5.1.1. (Cont'd)

## Design Data For Selected Locations in Ontario

Forming part of Sentence 2.5.1.1.(1)

Location	Design Temperature				Degree Days Below 18°C	15 Min., Rain., mm	One Day Rain., mm	Ann. Tot. Pcpn., mm	Snow and Rain Loads				Hourly Wind Pressures				Seismic Data		
	January		July 2½ %						Ground Loads, kPa	Composite Load, kPa		1/10, kPa	1/30, kPa	1/100, kPa	z <sub>a</sub>	z <sub>v</sub>	Zonal velocity ratio, v		
	2½%, °C	1%, °C	Dry, °C	Wet, °C						Part 9, 0.6 <sup>(1)</sup> , kPa	Part 9, 0.5 <sup>(2)</sup> , kPa								
West Lorne	-16	-18	31	24	3 850	28	95	900	1.2	0.4	1.12	1.00	0.34	0.43	0.53	0	0	0.00	
Whitby	-20	-22	30	23	4 000	23	80	850	1.1	0.4	1.06	0.95	0.43	0.52	0.64	1	1	0.05	
Whitby (Brooklin)	-20	-22	30	23	4 200	23	80	850	1.7	0.4	1.42	1.25	0.38	0.48	0.59	1	1	0.05	
White River	-39	-42	28	21	6 400	20	85	825	4.1	0.4	2.86	2.45	0.21	0.25	0.30	0	0	0.00	
Warton	-18	-20	28	22	4 500	25	105	1 000	2.5	0.4	1.90	1.65	0.33	0.43	0.55	1	0	0.05	
Windsor	-16	-18	31	24	3 600	28	95	900	0.7	0.4	0.82	0.75	0.36	0.43	0.52	0	0	0.00	
Wingham	-18	-20	30	23	4 350	28	100	1 050	2.4	0.4	1.84	1.60	0.35	0.45	0.57	0	0	0.00	
Woodstock	-18	-20	29	23	4 100	28	105	930	1.7	0.4	1.42	1.25	0.31	0.39	0.50	1	0	0.05	
Wyoming	-16	-18	31	24	3 850	25	95	900	1.5	0.4	1.30	1.15	0.35	0.43	0.52	0	0	0.00	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	

## Notes:

(1) The composite load is 60% of the ground snow load plus the rain load.

(2) The composite load is 50% of the ground snow load plus the rain load.

**Section 2.6. Referenced Documents****2.6.1. Application****2.6.1.1. Limitation**

(1) The provisions of referenced documents in this Code apply only to the extent that they relate to *buildings* or to structures designated in Subsection 2.1.2.

**2.6.2. Conflicting Requirements****2.6.2.1. Governing Documents**

(1) In the case of conflict between the provisions of this Code and those of a referenced document, the provisions of this Code shall govern.

**2.6.3. Effective Date****2.6.3.1. Edition of Standard**

(1) Unless otherwise specified herein, the documents referenced in this Code shall include all amendments, revisions and supplements effective to September 1, 1997.

**2.6.3.2. Designated Editions**

(1) Where documents are referenced in this Code, they shall be in the editions designated in Column 2 of Table 2.6.3.2.

**Table 2.6.3.2.****Documents Referenced in the Ontario Building Code**

Forming Part of Sentence 2.6.3.2.(1)

Issuing Agency	Document Number	Title of Document	Code Reference
ANSI/ ASME	B16.3-1992	Malleable Iron Threaded Fittings (Classes 150 and 300)	7.2.6.6.(1)
ANSI/ ASME	B16.4-1992	Cast Iron Threaded Fittings (Classes 125 and 250)	7.2.6.5.(1) Table 7.2.11.2.
ANSI/ ASME	B16.12-1991	Cast Iron Threaded Drainage Fittings	7.2.6.3.(1)
ANSI/ ASME	B16.15-1985	Cast Bronze Threaded Fittings (Classes 125 and 250)	7.2.7.3.(1)
ANSI	B16.18-1984	Cast Copper Alloy Solder Joint Pressure Fittings	7.2.7.6.(1) 7.2.7.6.(2) Table 7.2.11.2.
ANSI/ ASME	B16.22-1989	Wrought Copper and Copper Alloy Solder Joint Pressure Fittings	7.2.7.6.(1)
ANSI/ ASME	B16.24-1991	Bronze Pipe Flanges and Flanged Fittings (Class 150 and 300)	7.2.7.2.(1)
ANSI/ ASME	B16.26-1988	Cast Copper Alloy Fittings for Flared Copper Tubes	7.2.7.7.(1) 7.2.7.7.(2) Table 7.2.11.2.
ANSI/ ASME	B16.29-1986	Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings - DWV	7.2.7.5.(1)
ANSI	B18.6.1-1981	Slotted and Recessed Wood Screws (Inch Series)	9.23.3.1.(2)
ANSI	Z21.22-1986	Relief Valves and Automatic Shut-off Devices for Hot Water Supply Systems	7.2.10.11.(1)
ANSI/ ASHRAE	62-1989	Ventilation for Acceptable Indoor Air Quality	6.2.2.1.(2)
ANSI/ AWWA	C104/A21.4-90	Cement-Mortar Lining for Ductile-Iron and Gray-Iron Pipe and Fittings for Water	7.2.6.4.(2)
Column 1	2	3	4



Issuing Agency	Document Number	Title of Document	Code Reference
ANSI/AWWA	C110/A21.10-93	Ductile-Iron and Gray-Iron Fittings, 3 in. Through 48 in., for Water and Other Liquids	7.2.6.4.(3) Table 7.2.11.2.
ANSI/AWWA	C111/A21.11- 90	Rubber-Gasket Joints for Ductile-Iron and Gray-Iron Pressure Pipe and Fittings	7.2.6.4.(4) Table 7.2.11.2.
ANSI/AWWA	C151/A21.51- 91	Ductile-Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or Other Liquids	7.2.6.4.(1) Table 7.2.11.2.
ASTM	A53-93a	Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless	7.2.6.7.(4)
ASTM	A123-89A	Zinc (Hot Dip Galvanized) Coatings on Iron and Steel Products	Table 9.20.16.1.
ASTM	A153-82 (1987)	Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware	Table 9.20.16.1.
ASTM	A252-93	Welded and Seamless Steel Pipe Piles	4.2.3.8.(1)
ASTM	A283/A283M-93a	Low and Intermediate Tensile Strength Carbon Steel Plates, Shapes, and Bars	4.2.3.8.(1)
ASTM	A518M-92	Specification for Corrosion-Resistant High-Silicon Iron Castings	7.2.8.1.(1)
ASTM	A570/A570M-93	Hot-Rolled Carbon Steel Sheet and Strip, Structural Quality	4.2.3.8.(1)
ASTM	A611-94	Steel, Cold-Rolled Sheet, Carbon Structural	4.2.3.8.(1)
ASTM	A653-94	Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealed) by the Hot-Dip Process	9.3.3.2.(1)
ASTM	A924-94	Steel Sheet, Metallic-Coated by the Hot-Dip Process	9.3.3.2.(1)
ASTM	B32-94	Solder Metal	7.2.9.2.(2)
ASTM	B42-93	Seamless Copper Pipe, Standard Sizes	7.2.7.1.(1)
ASTM	B43-94	Seamless Red Brass Pipe, Standard Sizes	7.2.7.1.(2)
ASTM	B68-92	Seamless Copper Tube, Bright, Annealed	7.2.7.4.(3)
ASTM	B88-93a	Seamless Copper Water Tube	7.2.7.4.(1) Table 7.2.11.2.
ASTM	B306-92	Copper Drainage Tube (DWV)	7.2.7.4.(1)
ASTM	C4-62 (1991)	Clay Drain Tile	9.14.3.1.(1)
ASTM	C5-79 (1992)	Quicklime for Structural Purposes	9.20.3.1.(1)
ASTM	C27-93	Classification for Fire Clay and High Alumina Refractory Brick	9.21.3.4.(1)
ASTM	C36	Gypsum Wallboard	3.1.5.11.(4) 9.29.5.2.(1)
ASTM	C37	Gypsum Lath	9.29.5.2.(1)
ASTM	C126-94	Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units	9.20.2.1.(1)
ASTM	C207-91 (1992)	Hydrated Lime for Masonry Purposes	9.20.3.1.(1)
ASTM	C212-93	Structural Clay Facing Tile	9.20.2.1.(1)
ASTM	C411-82 (1992)	Hot-Surface Performance of High-Temperature Thermal Insulation	6.2.3.4.(3) 6.2.9.2.(2)
ASTM	C412M-94	Concrete Drain Tile	9.14.3.1.(1)
ASTM	C442	Gypsum Backing Board and Coreboard	3.1.5.11.(4) 9.29.5.2.(1)
ASTM	C444M-94	Perforated Concrete Pipe (Metric)	9.14.3.1.(1)
ASTM	C588	Gypsum Base for Veneer Plaster	9.29.5.2.(1) 3.1.5.11.(4)
ASTM	C630	Water Resistant Gypsum Board Backing	3.1.5.11.(4) 9.29.5.2.(1)
ASTM	C700-91	Vitrified Clay Pipe, Extra Strength, Standard Strength and Perforated	9.14.3.1.(1)
Column 1	2	3	4

Issuing Agency	Document Number	Title of Document	Code Reference
ASTM	C931	Exterior Gypsum Soffit Board	3.1.5.11.(4) 9.29.5.2.(1)
ASTM	C960	Preddecorated Gypsum Board	3.1.5.11.(4) 9.29.5.2.(1)
ASTM	C1002-93	Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases	9.24.1.4. 9.29.5.7.
ASTM	C1053-90	Borosilicate Glass Pipe and Fittings for Drain, Waste and Vent (DWV) Applications	7.2.8.1.(1)
ASTM	D374-94	Thickness of Solid Electrical Insulation	3.14.4.1.(1)(c)
ASTM	D568-77	Rate of Burning and/or Extent and Time of Burning of Flexible Plastics in a Vertical Position	3.14.4.1.(1)(b) 3.3.4.6.(1) 9.11.1.1.(1)
ASTM	D635-91	Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position	3.14.4.1.(1)(a)
ASTM	D2178-89	Asphalt Glass Felt Used in Roofing and Waterproofing	5.6.1.2.(1)
ASTM	D2898-94	Test Method for Accelerated Weathering of Fire-Retardant-Treated Wood for Fire Testing	3.1.5.5.(4) 3.1.5.5.(5)
ASTM	D3261-93	Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing	7.2.5.5.(3)
ASTM	E90-90	Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions	3.3.4.6.(1) 9.11.1.1.(1)
ASTM	E96-94	Test Methods for Water Vapour Transmission of Materials	5.5.1.2.(4)
ASTM	E283-91	Standard Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors	9.6.5.4.(1) 9.6.5.5.(1) 9.7.1.7.(1) 9.38.6.1.(1)
ASTM	E336-90	Measurement of Airborne Sound Insulation in Buildings	3.3.4.6.(1) 9.11.1.1.(1)
ASTM	E413-1994	Classification for Rating Sound Insulation	3.3.4.6.(1) 9.11.1.1.(1)
ASTM	F476-1991	Standard Test Methods For Security of Swinging Door Assemblies	9.6.8.10.(1)
AWPA	M4-91	Care of Preservative-Treated Wood Products	4.2.3.2.(2)
BNQ	NQ3624-115-1991	Thermo-Plastic Pipe-Flexible Corrugated Tubing and Fitting for Soil Drainage	9.14.3.1.(1)
CGA	CAN1-4.4-M80	Temperature, Pressure, Temperature and Pressure Relief Valves and Vacuum Relief Valves	7.2.10.11.(1)
CGA	CAN/CGA-6.19-M93	Residential Carbon Monoxide Detectors	9.32.3.8.(3)
CGSB	CAN/CGSB-1.501-M89	Method of Permeance of Coated Wallboard	5.5.1.2.(3) 9.25.4.2.(5)
CGSB	CAN/CGSB-7.1-86	Cold Formed Steel Framing Components	9.24.1.2.(1)
CGSB	CAN/CGSB-7.2-94	Adjustable Steel Columns	9.17.3.4.(1)
CGSB	CAN/CGSB-10.3-92	Air Setting Refractory Mortar	9.21.3.4.(2) 9.21.3.9.(1) 9.22.2.2.(2)
CGSB	CAN/CGSB-11.3-M87	Hardboard	9.27.10.1.(2) 9.29.7.1.(1) 9.30.2.2.(1)
CGSB	CAN/CGSB-11.5-M87	Hardboard, Precoated, Factory Finished, for Exterior Cladding	9.27.10.1.(1)
Column 1	2	3	4



Issuing Agency	Document Number	Title of Document	Code Reference
CGSB	CAN/CGSB-12.1-M90	Tempered or Laminated Safety Glass	3.3.1.18.(2) 3.4.6.14.(3) 9.6.6.2.(2) 9.7.3.1.(1) 9.8.8.7.(1)
CGSB	CAN/CGSB-12.2-M91	Flat, Clear, Sheet Glass	9.7.3.1.(1)
CGSB	CAN/CGSB-12.3-M91	Flat, Clear, Float Glass	9.7.3.1.(1)
CGSB	CAN/CGSB-12.4-M91	Heat Absorbing Glass	9.7.3.1.(1)
CGSB	CAN/CGSB-12.5-M86	Mirrors, Silvered	9.6.6.3.(2)
CGSB	CAN/CGSB-12.8-M90	Insulating Glass Units	9.7.3.1.(1)
CGSB	CAN/CGSB-12.10-M76	Glass, Light and Heat Reflecting	9.7.3.1.(1)
CGSB	CAN/CGSB-12.11-M90	Wired Safety Glass	3.4.6.14.(3) 9.6.6.2.(2) 9.7.3.1.(1) 9.8.8.7.(1) 4.3.6.1.(1)
CGSB	CAN/CGSB-12.20-M89	Structural Design of Glass for Buildings	3.3.1.18.(2) 9.7.3.2.(1)
CGSB	19-GP-5M-1976	Sealing Compound, One Component, Acrylic Base, Solvent Curing	9.27.4.2.(2)
CGSB	CAN/CGSB-19.13-M87	Sealing Compound, One Component, Elastomeric, Chemical Curing	9.27.4.2.(2)
CGSB	19-GP-14M-1976	Sealing Compound, One Component, Butyl-Polyisobutylene Polymer Base, Solvent Curing	9.27.4.2.(2)
CGSB	CAN/CGSB-19.22-M89	Mildew Resistant Sealing Compound for Tubs and Tile	9.29.10.5.(1)
CGSB	CAN/CGSB-19.24-M90	Multi-Component, Chemical Curing Sealing Compound	9.27.4.2.(2)
CGSB	CAN/CGSB-34.4-M89	Siding, Asbestos-Cement, Shingles and Clapboards	9.27.8.1.(1)
CGSB	CAN/CGSB-34.5-M89	Sheets, Asbestos-Cement, Corrugated	9.27.8.1.(1)
CGSB	CAN/CGSB-34.9-M87	Pipe, Asbestos-Cement, Sewer	7.2.5.1.(2)
CGSB	CAN/CGSB-34.14-M89	Sheets, Asbestos-Cement, Decorative	9.27.8.1.(1)
CGSB	CAN/CGSB-34.16-M89	Sheets, Asbestos-Cement, Flat, Fully Compressed	9.27.8.1.(1)
CGSB	CAN/CGSB-34.17-M89	Sheets, Asbestos-Cement, Flat, Semicompressed	9.27.8.1.(1)
CGSB	CAN/CGSB-34.21-M89	Panels, Sandwich, Asbestos-Cement with Insulating Cores	9.27.8.1.(1)
CGSB	CAN/CGSB-34.22-M87	Pipe, Asbestos-Cement, Drain	7.2.5.1.(1) 9.14.3.1.(1)
CGSB	CAN/CGSB-34.23-M87	Pipe, Asbestos-Cement, Sewer, House Connection	7.2.5.1.(2)
CGSB	CAN/CGSB-37.1-M89	Chemical Emulsified Type, Emulsified Asphalts for Dampproofing	9.13.2.1.(1)
CGSB	CAN/CGSB-37.2-M88	Emulsified Asphalt, Mineral Colloid Type, Unfilled, for Dampproofing and Waterproofing and for Roof Coatings	9.13.2.1.(1)
CGSB	CAN/CGSB-37.3-M89	Application of Emulsified Asphalts for Dampproofing or Waterproofing	9.13.1.4.(1)
CGSB	CAN/CGSB-37.4-M89	Fibrated, Cutback Asphalt, Lap Cement for Asphalt Roofing	9.26.2.1.(1)
CGSB	CAN/CGSB-37.5-M89	Cutback Asphalt Plastic Cement	9.26.2.1.(1)
CGSB	37-GP-6Ma-1983	Asphalt, Cutback, Unfilled, for Dampproofing	9.13.2.1.(1)
CGSB	CAN/CGSB-37.8-M88	Asphalt, Cutback, Filled, for Roof Coating	9.26.2.1.(1)
CGSB	37-GP-9Ma-1983	Primer, Asphalt, Unfilled, for Asphalt Roofing, Dampproofing and Waterproofing	5.6.1.2.(1) 9.26.2.1.(1)
CGSB	37-GP-12Ma-1984	Application of Unfilled Cutback Asphalt for Dampproofing	9.13.1.4.(1)
CGSB	CAN/CGSB-37.16-M89	Filled Cutback Asphalt for Dampproofing and Waterproofing	9.13.2.1.(1)
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CGSB	37-GP-18Ma-1985	Tar, Cutback, Fibrated, For Roof Coating	9.26.2.1.(1)
CGSB	CAN/CGSB-37.22-M89	Application of Unfilled Cutback Tar Foundation Coating for Dampproofing	9.13.1.4.(1)
CGSB	37-GP-36M-1976	Application of Filled Cutback Asphalt for Dampproofing or Waterproofing	5.8.2.3 (1)
CGSB	37-GP-37M-1977	Application of Hot Asphalt for Dampproofing or Waterproofing	5.8.2.3 (1)
CGSB	CAN/CGSB-37.50-M89	Hot Applied, Rubberized Asphalt for Roofing and Waterproofing	9.26.2.1.(1)
CGSB	CAN/CGSB-37.51-M90	Application for Hot Applied Rubberized Asphalt for Roofing and Waterproofing	5.8.2.3.(1) 9.26.15.1. (1)
CGSB	37-GP-52M-1984	Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric	9.26.2.1.(1)
CGSB	37-GP-54M-1979	Roofing and Waterproofing Membrane, Sheet Applied, Flexible, Polyvinyl Chloride	9.26.2.1.(1)
CGSB	37-GP-55M-1979	Application of Sheet Applied Flexible Polyvinyl Chloride Roofing Membrane	9.26.16.1.(1)
CGSB	37-GP-56M-1980	Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing	9.13.2.1.(1) 9.26.2.1.(1)
CGSB	37-GP-64M-1977	Mat Reinforcing, Fibrous Glass, for Membrane Waterproofing Systems and Built-up Roofing	5.6.1.2.(1)
CGSB	41-GP-6M-1983	Sheets, Thermosetting Polyester Plastics, Glass Fiber Reinforced	9.26.2.1.(1)
CGSB	41-GP-24Ma-1983	Siding, Soffits and Fascia, Rigid Vinyl	9.27.13.1.(1)
CGSB	CAN/CGSB-51.20-M87	Thermal Insulation, Polystyrene Boards and Pipe Covering	Table 9.23.16.2.A. 9.25.2.3.(1)
CGSB	51-GP-21M-1978	Thermal Insulation, Urethane and Isocyanurate, Unfaced	Table 9.23.16.2.A. 9.25.2.3.(1)
CGSB	CAN/CGSB-51.23-M92	Spray Applied Rigid Polyurethane Cellular Plastic Thermal Insulation	5.3.1.2.(2) 9.25.2.3.(1)
CGSB	CAN/CGSB-51.25-M87	Thermal Insulation, Phenolic, Faced	9.25.2.3.(1)
CGSB	CAN/CGSB-51.26-M87	Thermal Insulation, Urethane and Isocyanurate, Boards, Faced	Table 9.23.16.2.A. 9.25.2.3.(1)
CGSB	51-GP-27M-1979	Thermal Insulation, Polystyrene, Loose Fill	9.25.2.3.(1)
CGSB	CAN2-51.32-M77	Sheathing, Membrane, Breather Type	9.20.13.9.(1) 9.23.17.1.(1) 9.26.2.1.(1)
CGSB	CAN/CGSB-51.33-M89	Vapour Barrier, Sheet, Excluding Polyethylene, for Use in Building Construction	9.25.4.2.(4)
CGSB	CAN/CGSB-51.34-M86	Vapour Barrier, Polyethylene Sheet for Use in Building Construction	9.13.2.1.(1) 9.13.2.1.(2) 9.18.6.2.(1) 9.25.3.2.(2) 9.25.4.2.(3)
CGSB	CAN/CGSB-51.39-M92	Spray Application of Rigid Polyurethane Cellular Plastic Insulation for Building Construction	5.3.1.3.(3) 9.25.2.5.(1)
CGSB	CAN/CGSB-51.60-M90	Cellulose Fibre Loose Fill Thermal Insulation	9.25.2.3.(1)
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CGSB	CAN/CGSB-82.1-M89	Sliding Doors	9.6.5.2.(1)
CGSB	CAN/CGSB-82.5-M88	Insulated Steel Doors	9.6.5.3.(1)
CGSB	CAN/CGSB-82.6-M86	Doors, Mirrored Glass, Sliding or Folding, Wardrobe	9.6.6.3.(1)
CGSB	CAN/CGSB-93.1-M85	Sheet, Aluminum Alloy, Prefinished Residential	9.27.12.1.(4)
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CGSB	CAN/CGSB-93.3-M91	Prefinished Galvanized and Aluminum-Zinc Alloy Steel Sheet for Residential Use	5.6.1.2.(3) 9.27.12.1.(2)
CGSB	CAN/CGSB-93.4-M92	Galvanized Steel and Aluminum-Zinc Alloy Coated Steel Siding and Fascia, Residential, Prefinished	5.6.1.2.(3) 9.27.12.1.(1)
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CSA	CAN/CSA-A8-M93	Masonry Cement	9.20.3.1.(1)
CSA	CAN/CSA-A23.1-94	Concrete Materials and Methods of Concrete Construction	4.2.3.6.(1) 4.2.3.9.(1) 9.3.1.3.(1) 9.3.1.4.(1)
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CSA	CAN/CSA-A82.1-M87	Burned Clay Brick (Solid Masonry Units Made From Clay or Shale)	9.20.2.1.(1)
CSA	A82.3-M1978	Calcium Silicate (Sand-Lime) Building Brick	9.20.2.1.(1)
CSA	A82.4-M1978	Structural Clay Load-Bearing Wall Tile	9.20.2.1.(1)
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CSA	A101-M1983	Thermal Insulation, Mineral Fibre, for Buildings	9.25.2.3.(1) Table 9.23.16.2.A.
CSA	A123.1-M1979	Asphalt Shingles Surfaced with Mineral Granules	9.26.2.1.(1)
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CSA	A123.4-M1979	Bitumen for Use in Construction of Built-Up Roof Coverings and Dampproofing and Waterproofing Systems	9.13.2.1.(1) 9.26.2.1.(1)
CSA	CAN/CSA-A123.5-M90	Asphalt Shingle Made from Glass Felt and Surfaced with Mineral Granules	5.6.1.2.(1) 9.26.2.1.(1)
CSA	A123.17-M1963	Asphalt-Saturated Felted Glass-Fibre Mat for Use in Construction of Built-Up Roofs	9.26.2.1.(1)
CSA	CAN3-A123.51-M85	Asphalt Shingle Application on Roof Slopes 1:3 and Steeper	9.26.1.2.(1)
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CSA	A257 Series-M92	Standards for Circular Concrete Pipe and Manholes	7.2.5.3.(1)
CSA	CAN/CSA-A257.4-M92	Precast Reinforced Circular Concrete Manhole Sections, Catch Basins, and Fittings	7.2.5.3.(6)
CSA	CAN3-A266.1-M78	Air-Entraining Admixtures for Concrete	9.3.1.8.(1)
CSA	CAN3-A266.2-M78	Chemical Admixtures for Concrete	9.3.1.8.(1)
CSA	CAN/CSA-A277-M90	Procedures for Certification of Factory-Built Houses	2.1.1.4.(2)
CSA	CAN/CSA-A324-M88	Clay Flue Liners	9.21.3.3.(1)
CSA	A371-94	Masonry Construction for Buildings	5.6.1.2.(3) 5.6.1.3.(3) 9.20.15.2.(1)
CSA	CAN/CSA-A405-M87	Design and Construction of Masonry Chimneys and Fireplaces	9.21.3.5.(1) 9.22.1.4.(1) 9.22.5.2.(2)
CSA	CAN3-A438-M84	Concrete Construction for Housing and Small Buildings	9.3.1.1.(1) 9.3.1.7.(1)
CSA	CAN/CSA-A440-M90	Windows	3.7.2.2.(3) 9.7.2.1.(1) 9.7.6.1.(1)
CSA	CAN/CSA-A440.2-M92	Energy Performance Evaluation of Windows and Sliding Glass Doors	9.25.2.1.(12) 9.38.5.4.(4)
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CSA	CAN/CSA-B45.O Series-94	General Requirements for Plumbing Fixtures	7.6.4.2.(1)
CSA	CAN/CSA-B52-92	Mechanical Refrigeration Code	6.2.2.4.(4)
CSA	CAN/CSA-B64 Series-M94	Backflow Preventers and Vacuum Breakers	7.6.2.3.(4)
CSA	CAN/CSA-B64.0-M94	Definitions, General Requirements, and Test Methods for Vacuum Breakers and Backflow Preventers	7.2.10.10.(1)
CSA	CAN/CSA-B64.1.1-M94	Vacuum Breakers, Atmospheric Type (AVB)	7.2.10.10.(1)
CSA	CAN/CSA-B64.1.2-M94	Vacuum Breakers, Pressure Type (PVB)	7.2.10.10.(1)
CSA	CAN/CSA-B64.2-M94	Vacuum Breakers, Hose Connection Type	7.2.10.10.(1)
CSA	CAN/CSA-B64.2.1-M94	Vacuum Breakers, Hose Connection Type (HCVB) with Manual Draining Feature	7.2.10.10.(1)
CSA	CAN/CSA-B64.2.2-M94	Vacuum Breakers, Hose Connection Type (HCVB) with Automatic Draining Feature	7.2.10.10.(1)
CSA	CAN/CSA-B64.3-M94	Backflow Preventers, Dual Check Valve Type Atmospheric Port (DACP)	7.2.10.10.(1)
CSA	CAN/CSA-B64.4-M94	Backflow Preventers, Reduced Pressure Principle Type (RP)	7.2.10.10.(1) 7.6.2.3.(4)
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CSA	CAN/CSA-B64.7-M94	Vacuum Breakers, Laboratory Faucet Type (LFVP)	7.2.10.10.(1)
CSA	CAN/CSA-B64.8-M94	Backflow Preventers, Dual Check Valve Type with Intermediate Vent (DuCV)	7.2.10.10.(1)
CSA	CAN/CSA-B64.10-M94	Backflow Prevention Devices - Selection, Installation, Maintenance and Field Testing	7.2.10.10.(1)
CSA	B67-1972	Lead Service Pipe, Waste Pipe, Traps, Bends and Accessories	7.2.7.8.(1) 7.2.9.2.(1)
CSA	CAN/CSA-B70-M91	Cast Iron Soil Pipe, Fittings and Means of Joining	7.2.6.1.(1)
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CSA	CAN/CSA-B137.1-M89	Polyethylene Pipe, Tubing and Fittings for Cold Water Pressure Services	7.2.5.5.(1) Table 7.2.11.2.
CSA	CAN/CSA-B137.2-M93	PVC Injection-Moulded Gasketed Fittings for Pressure Applications	7.2.5.6.(1) 7.2.5.9.(1)
CSA	CAN/CSA-B137.3-M93	Rigid Poly (Vinyl Chloride) (PVC) Pipe for Pressure Applications	7.2.5.6.(1) 7.2.5.9.(1) Table 7.2.11.2.
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CSA	B137.6-M1983	CPVC Pipe, Tubing and Fittings for Hot and Cold Water Distribution Systems	7.2.5.7.(1) Table 7.2.11.2.
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CSA	CAN/CSA-B137.8-M92	Polybutylene (PB) Piping for Pressure Applications	7.2.5.8.(1)
CSA	CAN/CSA-B137.9-M91	Polyethylene/Aluminum/Polyethylene Composite Pressure Pipe Systems	7.2.5.12.(1) Table 7.2.11.2.
CSA	CAN/CSA-B137.10-M91	Crosslinked Polyethylene/Aluminum Crosslinked Polyethylene Composite Pressure Pipe Systems	7.2.5.13.(1) Table 7.2.11.2.
CSA	CAN/CSA-B137.11-M93	Polypropylene (PP-R) Pipe and Fittings for Pressure Applications	7.2.5.14.(1)
CSA	B158.1-M1976	Cast Brass Solder Joint Drainage, Waste and Vent Fittings	7.2.7.5.(1) 7.2.10.1.(1)
CSA	CAN/CSA-B181.1-M90	ABS Drain, Waste, and Vent Pipe and Pipe Fittings	7.2.5.9.(1) 7.2.5.10.(1) 7.2.5.10.(2) 7.2.10.1.(2)
CSA	CAN/CSA-B181.2-M90	PVC Drain, Waste, and Vent Pipe and Pipe Fittings	7.2.5.9.(1) 7.2.5.10.(1) 7.2.5.10.(2) 7.2.10.1.(3)
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CSA	G164-M81	Hot Dip Galvanising of Irregularly Shaped Articles	4.1.10.8.(4)
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CSA	O118.1-M88	Western Red Cedar Shingles and Shakes	9.26.2.1.(1) 9.27.7.1.(1)
CSA	O118.2-M88	Eastern White Cedar Shingles	5.6.1.2.(1) 5.6.1.2.(3) 9.26.2.1.(1) 9.27.7.1.(1)
CSA	O121-M1978	Douglas Fir Plywood	9.23.14.2.(1) 9.23.15.1.(1) Table 9.23.16.2.A. 9.27.9.1. 9.30.2.2.(1)
CSA	O132.2-M1977	Wood Doors	9.6.5.1.(1)
CSA	CAN/CSA-O132.2 Series-M90	Wood Flush Doors	9.6.5.1.(1)
CSA	O141-1991	Softwood Lumber	3.1.4.6.(2) 9.3.2.6.(1)
CSA	O151-M1978	Canadian Softwood Plywood	9.23.14.2.(1) 9.23.15.1.(1) Table 9.23.16.2.A. 9.27.9.1.(1) 9.30.2.2.(1)
CSA	O153-M1980	Poplar Plywood	9.23.14.2.(1) 9.23.15.1.(1) Table 9.23.16.2.A. 9.27.9.1.(1) 9.30.2.2.(1)
CSA	CAN/CSA-O177-M89	Qualification Code for Manufacturers of Structural Glued-Laminated Timber	4.3.1.2.(1)
CSA	CAN3-O188.1-M78	Interior Mat-Formed Wood Particleboard	9.23.14.2.(3) 9.29.9.1.(1) 9.30.2.2.(1)
CSA	CAN/CSA-O325.0-92	Construction Sheathing	5.6.1.2.(3) 9.23.14.2.(1) 9.23.15.1.(1)
CSA	O437.0-93	OSB and Waferboard	5.6.1.2.(3) 9.23.14.2.(1) 9.23.14.4.(2) 9.23.15.1.(1)9.23.15.2.(2) Table 9.23.16.2.A. 9.27.11.1.(1) 9.29.9.1.(2) 9.30.2.2.(1)
CSA	CAN/CSA-S16.1-94	Limit States Design of Steel Structures	Table 4.1.9.1.B. 4.3.4.1.(1)
CSA	CAN/CSA-S37-M86	Antennas, Towers and Antenna Supporting Structures	4.1.1.4.(2)
CSA	S136-94	Cold Formed Steel Structural Members	4.3.4.2.(1)
Column 1	2	3	4

Issuing Agency	Document Number	Title of Document	Code Reference
CSA	CAN3-S157-M83	Strength Design in Aluminum	4.3.5.1.(1)
CSA	CAN3-S304-M84	Masonry Design for Buildings	Table 4.1.9.1.B. 4.3.2.1.(1) 9.21.4.5.(1)
CSA	S304.1-94	Masonry Design for Buildings (Limit States Design)	Table 4.1.9.1.B. 4.1.9.3.(5) 4.3.2.1.(1)
CSA	S307-M1980	Load Test Procedure for Wood Roof Trusses for Houses and Small Buildings	9.23.13.11.(5)
CSA	CAN3-S367-M81	Air Supported Structures	4.4.1.1.(1)
CSA	CAN/CSA-S406-M92	Construction of Preserved Wood Foundations	9.13.3.4.(1) 9.15.1.3.(3)
CSA	S413-94	Parking Structures	2.1.1.9.(1) 4.4.2.1.(1)
CSA	CAN/CSA-Z32.4-M86	Essential Electrical Systems for Hospitals	3.2.7.6.(1)
CSA	CAN/CSA-Z91-M90	Safety Code for Window Cleaning Operations	4.1.10.8.(2)
CSA	CAN/CSA-Z240.2.1-92	Structural Requirements for Mobile Homes	2.1.1.4.(2) 9.12.2.2.(6) 9.15.1.4.(1)
CSA	CAN/CSA-Z240.3.1-M92	Plumbing Requirements for Mobile Homes	2.1.1.4.(2)
CSA	CAN/CSA-Z240.8.1-M92	Light Duty Windows	2.1.1.4.(2) 9.7.2.1.(2)
CSA	CAN/CSA-Z240.10.1-M94	Site Preparation, Foundation and Anchorage of Mobile Homes	9.15.1.4.(1) 9.23.6.3.(1)
CSA	CAN/CSA-Z241-M92	Park Model Trailers	9.39.1.1.(1) 9.39.2.1.(1)
CSA	CAN/CSA-Z305.1-92	No-Flammable Medical Gas Piping Systems	3.7.5.2.(1)
CSA	CAN/CSA-Z317.2-M91	Special Requirements for Heating, Ventilation and Air Conditioning (HVAC) Systems in Health Care Facilities	6.2.1.1.(1)
DBR	Technical Paper No. 194	Fire Endurance of Protected Steel Columns and Beams	11.5.1.1.
DBR	Technical Paper No. 207	Fire Endurance of Unit Masonry Miscellaneous Assemblies	11.5.1.1.
DBR	Technical Paper No. 222	Fire Endurance of Light Framed and Miscellaneous Assemblies	11.5.1.1.
HUD	Rehabilitation Guidelines No. 8 - 1980	Guideline on Fire Ratings of Archaic Materials and Assemblies	11.5.1.1.
ISO	ISO 8201; 1987(E)	Acoustics - Audible Emergency Evacuation Signal	3.2.4.19.(2)
TPIC	1988	Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses	9.23.13.11.(6)
MMAH	Supplementary Guidelines, 1997	Supplementary Guidelines to the 1997 OBC	2.1.1.11., 3.1.5.22.(2), 3.1.7.1.(2), 3.1.8.14.(2), 3.1.9.5.(1), 3.1.12.1.(3), 3.2.3.11.(1), 3.2.3.12.(4), 3.2.4.19.(7), 3.2.6.9.(3), 3.2.6.10.(2), 3.2.6.15.(1), 3.6.1.5.(1), 3.12.2.1.(8), 3.12.3.5.(1), 3.12.3.6.(2), 3.12.4.2.(7), 9.8.8.8.(2), 9.10.3.1.(1), 9.10.3.2.(1), 9.10.5.1.(4), 9.11.2.1., 9.13.7.1.(1), 9.15.3.3.(4), 9.1 0.13.14.(1)
MOEE	Guidelines 1985, with Subsequent Revision	Guidelines for the Design of Sanitary Sewage Works, Storm Sewers, Water Storage Facilities, Water Distribution Systems, Servicing in areas subject to adverse conditions, Water supply for small residential development and seasonally operated water supply	7.1.6.5.(1)
Column 1	2	3	4



Issuing Agency	Document Number	Title of Document	Code Reference
NFPA	13-1994	Installation of Sprinkler Systems	3.2.4.16.(1) 3.2.5.13.(1) 3.2.8.4.(7) 3.3.2.12.(3) 7.6.2.3.(4)
NFPA	13D-1994	Installation of Sprinkler Systems in One- and Two-Family Dwellings and Mobile Homes	3.2.5.13.(3)
NFPA	13R-1991	Installation of Sprinkler Systems in Residential Occupancies up to and including Four Stories in Height	3.2.5.13.(2)
NFPA	14-1993	Installation of Standpipe and Hose Systems	3.2.9.2.(1)
NFPA	24-92	Standard for the Installation of Fire Service Mains and Their Appurtenances	7.2.11.1.(1)
NFPA	71-1989	Installation, Maintenance and Use of Central Station Signalling Systems	3.2.4.7.(4)
NFPA	72-1990	Installation, Maintenance and Use of Proprietary Protective Signalling Systems	3.2.4.7.(4) 3.12.5.4.(1)
NFPA	80-1992	Fire Doors and Windows	3.1.8.5.(2) 3.1.8.10.(2) 3.1.8.12.(2) 3.1.8.14.(1) 3.12.3.1.(2) 9.10.13.1.(1) 9.10.13.2.(3)
NFPA	82-1994	Incinerators, Waste and Linen Handling Systems and Equipment	6.2.6.1.(1) 9.10.10.5.(2)
NFPA	96-1994	Ventilation Control and Fire Protection of Commercial Cooking Operations	6.2.2.6. (1)
NFPA	130-1990	Fixed Guideway Transit Systems	3.12.7.1.
NFPA	211-1992	Standard for Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances	6.3.1.2.(2) 6.3.1.3.(1)
NFPA	214-1992	Water-Cooling Towers	6.2.3.15.(4)
NFPA	701-1992	Standard Method of Fire Tests for Flame-Resistant Textiles and Films	3.13.1.6.(1) 3.13.2.5.(1)
NLGA	1994	Standard Grading Rules for Canadian Lumber	9.3.2.1.(1) Table 9.3.2.1.
UL	UL 2034-1992	Single and Multiple Station Carbon Monoxide Detectors	9.32.3.8.(3)
ULC	CAN/ULC-S101-M89	Standard Methods of Fire Endurance Tests of Building Construction and Materials	3.1.5.11.(3) 3.1.5.11.(4) 3.1.5.11.(6) 3.1.7.1.(1) 3.1.11.7.(1) 3.2.3.7.(7) 3.2.6.9.(6) 3.2.6.14.(4)
ULC	CAN/ULC-S102-M88	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies	3.1.12.1.(1)
ULC	CAN/ULC-S102.2-M88	Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies	3.1.12.1.(2) 3.1.13.4.(1)
ULC	S102.3-M1982	Standard Method of FireTest of Light Diffusers and Lenses	3.1.13.4.(1)
ULC	CAN4-S104-M80	Standard Method of FireTest of Door Assemblies	3.1.8.4.(1) 3.2.6.9.(3) 9.10.13.2.(1)
ULC	CAN4-S105-M85	Standard Specification for Fire Door Frames Meeting the Performance Required by CAN4-S104	9.10.13.6.(1)
Column 1	2	3	4

Issuing Agency	Document Number	Title of Document	Code Reference
ULC	CAN4-S106-M80	Standard Method for Fire Tests of Window and Glass Block Assemblies	3.1.8.4.(1) 3.13.2.5.(1)
ULC	CAN/ULC-S107-M87	Standard Method for Fire Tests of Roof Coverings	3.1.15.1.(1)
ULC	CAN/ULC-S109-M87	Standard for Flame Tests of Flame-Resistant Fabrics and Films	3.1.4.7.(1) 3.1.5.22.(1) 3.13.1.6.(1) 6.2.3.18.(1) 6.2.4.9.(1)
ULC	CAN/ULC-S110-M1986	Standard Methods of Fire Test for Air Ducts	6.2.3.2.(2) 6.2.3.2.(4)
ULC	CAN4-S111-M80	Standard Method of Fire Tests for Air Filter Units	6.2.3.14.(1) 6.2.4.14.(1)
ULC	CAN/ULC-S112-M90	Standard Method of Fire Test of Fire-Damper Assemblies	3.1.8.4.(1)
ULC	CAN4-S112.2-M84	Standard Method of Fire Test of Ceiling Firestop Flap Assemblies	3.1.9.5.(2) 3.6.4.3.(2)
ULC	CAN4-S113-M79	Standard Specification for Wood Core Doors Meeting the Performance Required by CAN4-S104-77 for Twenty Minute Fire Rated Closure Assemblies	9.10.13.2.(1)
ULC	CAN4-S114-M80	Standard Method of Fire Test for Determination of Non-Combustibility in Building Materials	1.1.3.2.
ULC	CAN4-S115-M85	Standard Method of Fire Tests for Firestop Systems	3.1.9.1.(1) 3.1.9.1.(2) 3.1.9.4.(4) 9.10.9.7.(3)
ULC	CAN4-S124-M85	Standard Method of Test for the Evaluation of Protective Coverings for Foamed Plastic	3.1.5.11.(2)
ULC	CAN/ULC-S126-M86	Standard Method of Test for Fire Spread Under Roof-Deck Assemblies	3.1.14.1.(1) 3.1.14.2.(1)
ULC	CAN/ULC-S134-92	Fire Test of Exterior Wall Assemblies	3.1.5.5.(1)
ULC	S505-1974	Standard for Fusible Links for Fire Protection Service	3.1.8.9.(1)
ULC	S513-78	Standard for Threaded Couplings for 38 mm and 65 mm Fire Hose	3.2.9.2.(7)
ULC	CAN/ULC-S524-M91	Standard for the Installation of Fire Alarm Systems	3.2.4.5.(1)
ULC	CAN/ULC-S531-M87	Standard for Smoke Alarms	3.2.4.21.(1) 9.10.18.1.(1)
ULC	CAN/ULC-S537-M87	Standard for the Verification of Fire Alarm Systems	3.2.4.5.(2)
ULC	S543-M1983	Standard for Internal Lug Quick Connect Couplings for Fire Hoses	3.2.9.2.(7)
ULC	CAN/ULC-S553-M86	Installation of Smoke Alarms	3.2.4.21.(7)
ULC	CAN/ULC-S610-M87	Standard for Factory-Built Fireplaces	9.22.8.1.
ULC	CAN/ULC-S628-93	Fireplace Inserts	9.22.10.1.(1)
ULC	CAN/ULC-S629-M87	Standard for 650°C Factory-Built Chimneys	9.21.1.2.
ULC	CAN/ULC-S639-M87	Standard for Steel Liner Assemblies for Solid Fuel-Burning Masonry Fireplaces	9.22.2.3.
ULC	CAN/ULC-S701-M97	Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering	Table 9.23.16.2.A. 9.25.2.3.(1) 9.25.2.3.(4)
ULC	ULC/ORD-C199P-M1988	Guide for the Investigation of Combustible Piping for Sprinkler Systems	3.2.5.14.(2)
ULC	ULC/ORD-C376-1995	Fire Growth of Foamed Plastic Insulated Building Panels in a Full-Scale Room Configuration	3.1.5.11.(7)
ULC	ULC/ORD-C693-1994	Central Station Fire Protective Signalling Systems and Services	3.2.4.7.(4)
Column 1	2	3	4



**2.6.4. Alternate Test Standards****2.6.4.1. Comparable Test Results**

(1) The results of tests based on test standards other than as described in this Code may be used if the alternate test standards provide comparable results.

**Section 2.7. Equivalents****2.7.1. Application****2.7.1.1. General**

(1) A *chief building official* may allow under Section 9 of the Act the use of materials, systems or *building designs* not authorized by the *building code* where the use of the proposed materials, systems or *building designs*

(a) is permitted under this Section, and

(b) will, in the opinion of the *chief building official*, provide the level of performance that would be achieved by conformance with the requirements of the *building code*.

**2.7.2. Acceptance of Equivalents****2.7.2.1. Materials**

(1) Materials not specifically described in Parts 3, 5, 6, 7 and 9, or which vary from the specific requirements in those Parts or for which no recognized test procedure has been established, may be used if the person requesting the use of such material can establish on the basis of past performance, tests described in Article 2.7.2.4. or other evaluation that the use of the proposed material will provide the level of performance that would be achieved by conformance with the requirements of the *building code*.

**2.7.2.2. Systems**

(1) Systems not specifically described in Parts 3, 5, 6, 7 and 9, or for which no recognized test procedure has been established, may be used if the person requesting the use of such system can establish on the basis of past performance, tests described in Article 2.7.2.4. or other evaluation that the use of the proposed system will provide the level of performance that would be achieved by conformance with the requirements of the *building code*.

**2.7.2.3. Building Designs**

(1) *Building designs* not specifically described in Part 4 may be used if the person requesting the use of such *building design* can establish

that the use of the proposed *building design* will provide the level of performance that would be achieved by conformance with the requirements of the *building code*.

**2.7.2.4. Tests**

(1) Where no published test method to establish the suitability of a material or system proposed under Articles 2.7.2.1. or 2.7.2.2. exists, then the tests used for the purposes of those Articles shall be designed to simulate or exceed anticipated service conditions or shall be designed to compare the performance of the material or system with a similar material or system that is known to be acceptable.

(2) The results of tests or evaluations based on test standards other than as described in the *building code* may, in accordance with Article 2.6.4.1., be used for the purposes of Sentence (1) if the alternate test standards provide comparable results.

**Section 2.8. Materials, Systems and Building Designs****2.8.1. Designated Materials Evaluation Bodies****2.8.1.1. Designated Bodies**

(1) The following body is designated as a materials evaluation body for the purposes of Subsection 29(1) of the Act:

Canadian Construction Materials Centre  
Institute for Research in Construction  
National Research Council of Canada  
Montreal Road  
Ottawa, Ontario  
K1A 0R6

**2.8.2. Minister's Rulings****2.8.2.1. Minister's Rulings**

(1) The Minister may impose terms and conditions, including conditions of termination, when making rulings under Subsection 29(1) of the Act adopting the evaluation report of a materials evaluation body designated in the *building code*.

**Section 2.9. Search Warrant****2.9.1. Forms****2.9.1.1. Information & Warrant Forms**

(1) An information to obtain a warrant to enter and search lands and *buildings* under Subsection 21(1) of the Act shall be in Form 2.9.1.A.

(2) A warrant to enter and search lands and *buildings* under Subsection 21(1) of the Act shall be in Form 2.9.1.B.

## Form 2.9.1.A.

*Building Code Act, 1992*INFORMATION TO OBTAIN SEARCH WARRANT UNDER  
SECTION 21 OF THE BUILDING CODE ACT, 1992ONTARIO COURT (PROVINCIAL DIVISION)  
PROVINCE OF ONTARIOThis is the information of .....  
(name)of .....  
(address) (occupation)I have reasonable ground to believe and do believe that the offence .....  
of

contrary to Building Code Act, 1992 Section .... has been committed and that the entry into and search of a certain building, receptacle or

place, namely, .....  
(building, receptacle or place)of ..... , at .....  
(owner) (address)will afford the following evidence: .....  
(describe evidence to be searched for, including things to be seized, if any)

relevant to the commission of the offence.

And I further say that my grounds for so believing are:

Therefore, I request that a search warrant be issued to

☐ enter into and search the said .....  
 check ..... (building, receptacle or place)  
 appropriate ..... for the said evidence.  
 box

☐ enter into and search the said .....  
 ..... (building, receptacle or place)  
 ..... for the said evidence and to seize the following things :  
 .....  
 (describe things to be seized)

Informant

 Sworn before me at ..... ,  
 this ..... day of .....  
 Provincial Judge or Justice of the Peace



## Form 2.9.1.B.

*Building Code Act, 1992*

## SEARCH WARRANT UNDER SECTION 21 OF THE BUILDING CODE ACT, 1992

ONTARIO COURT (PROVINCIAL DIVISION)  
PROVINCE OF ONTARIO

To: .....

Whereas, on the information on oath of ....., I am satisfied that there is reasonable ground to believe that the  
 offence of ..... contrary to Building Code Act, 1992 Section .....  
 has been committed and that .....

(describe evidence to be searched for, including things to be seized, if any)

that there is reasonable ground to believe will afford evidence of the said offence may be found at .....

(building, receptacle or place)

of ....., at .....

(owner)

(address)

hereinafter called the premises.

This is therefore to authorise you to enter such .....

(name or location of building, receptacle or place)

between the hours of 6:00 a.m. and 9:00 p.m., or .....

(time warrant to be executed)

check ☐ and to search for the said evidence.  
 appropriate  
 box

☐ and to search the said evidence and to seize the following things .....

(describe things to be seized)

and carry them before me or another Provincial Judge or Justice of the Peace so that they may be dealt with according to the law.

This warrant expires on the ..... day of ....., a day not later than the fifteenth day after its issue.

Issue at .....

this ..... day of .....

Provincial Judge or Justice of the Peace

## Part 3

### Fire Protection, Occupant Safety and Accessibility

Section	3.1.	General	Section	3.6.4.	Horizontal Service Spaces and Service Facilities
	3.1.1.	Scope		3.7.	Health Requirements
	3.1.2.	Classification of Buildings or Parts of Buildings by Major Occupancy		3.7.1.	Height and Area of Rooms
	3.1.3.	Multiple Occupancy Requirements		3.7.2.	Windows
	3.1.4.	Combustible Construction		3.7.3.	Ventilation
	3.1.5.	Noncombustible Construction		3.7.4.	Plumbing Facilities
	3.1.6.	Reserved		3.7.5.	Health Care Facility Systems
	3.1.7.	Fire-Resistance Ratings	Section	3.8.	Barrier-Free Design
	3.1.8.	Fire Separations and Closures		3.8.1.	General
	3.1.9.	Building Services in Fire Separations and Fire Rated Assemblies		3.8.2.	Occupancy Requirements
	3.1.10.	Firewalls	Section	3.8.3.	Design Standards
	3.1.11.	Fire Stops in Concealed Spaces		3.9.	Portable Classrooms
	3.1.12.	Flame-Spread Rating and Smoke Developed Classification		3.9.1.	Scope
	3.1.13.	Interior Finish	Section	3.9.2.	Interior Finish
	3.1.14.	Roof Assemblies		3.9.3.	Application
	3.1.15.	Roof Covering	Section	3.10.	Self-Service Storage Buildings
	3.1.16.	Occupant Load		3.10.1.	Scope
	3.1.17.	Drainage and Grades		3.10.2.	Requirements for All Buildings
	3.1.18.	Above Ground Electrical Conductors		3.10.3.	Additional Requirements for Buildings Containing More Than 1 Storey
Section	3.2.	Building Fire Safety	Section	3.10.4.	Additional Requirements for 1 Storey Buildings
	3.2.1.	General		3.11.	Public Pools
	3.2.2.	Building Size and Construction Relative to Occupancy		3.11.1.	General
	3.2.3.	Spatial Separation and Exposure Protection		3.11.2.	Designations of Public Pools
	3.2.4.	Fire Alarm and Detection Systems	Section	3.11.3.	Pool and Pool Deck Construction Requirements for All Class A and Class B Pools
	3.2.5.	Provisions for Fire-fighting		3.11.4.	Public Pools Equipped with Diving Boards or Diving Platforms
	3.2.6.	Additional Requirements for High Buildings		3.11.5.	Ramps into Public Pools in Group B, Division 2 or 3, Major Occupancies
	3.2.7.	Lighting and Emergency Power Systems		3.11.6.	Modified Pools
	3.2.8.	Mezzanines and Openings Through Floor Assemblies		3.11.7.	Wave Action Pools
	3.2.9.	Standpipe Systems		3.11.8.	Recirculation and Vacuum Systems for Public Pools
Section	3.3.	Safety Within Floor Areas		3.11.9.	Dressing Rooms, Locker Facilities, and Plumbing Facilities for All Public Pools
	3.3.1.	All Floor Areas		3.11.10.	Emergency Provisions for All Public Pools
	3.3.2.	Assembly Occupancy		3.11.11.	Service Rooms and Storage for All Public Pools
	3.3.3.	Care or Detention Occupancy	Section	3.12.	Rapid Transit Stations
	3.3.4.	Residential Occupancy		3.12.1.	Scope and Definitions
	3.3.5.	Industrial Occupancy		3.12.2.	Construction Requirements
Section	3.4.	Exits		3.12.3.	Safety Requirements Within Stations
	3.4.1.	General		3.12.4.	Means of Egress
	3.4.2.	Number and Location of Exits from Floor Areas		3.12.5.	Fire Safety Provisions
	3.4.3.	Width and Height of Exits		3.12.6.	Required Sanitary Facilities
	3.4.4.	Fire Separation of Exits		3.12.7.	Emergency Ventilation
	3.4.5.	Exit Signs		3.12.8.	Barrier-Free Design
	3.4.6.	Types of Exit Facilities	Section	3.13.	Tents and Air-Supported Structures
Section	3.5.	Vertical Transportation		3.13.1.	Tents
	3.5.1.	General		3.13.2.	Air-Supported Structures
	3.5.2.	Elevator Required	Section	3.14.	Signs
	3.5.3.	Fire Separations		3.14.1.	Scope
	3.5.4.	Dimensions and Signs		3.14.2.	Alterations
Section	3.6.	Service Facilities		3.14.3.	Structural Requirements
	3.6.1.	General			
	3.6.2.	Service Rooms			
	3.6.3.	Vertical Service Spaces and Service Facilities			

- 3.14.4. Plastic Sign Facing Materials  
3.14.5. Location Restrictions

- Section 3.15. Additional Requirements For Change of Use  
3.15.1. Scope  
3.15.2. Additional Construction

## Part 3 Fire Protection, Occupant Safety and Accessibility

### Section 3.1. General

#### 3.1.1. Scope

##### 3.1.1.1. Scope

- (1) The scope of this Part shall be as described in Section 2.1.

##### 3.1.1.2. Reserved

### 3.1.2. Classification of Buildings or Parts of Buildings by Major Occupancy

#### 3.1.2.1. Classification of Buildings

(1) Except as permitted by Articles 3.1.2.3. to 3.1.2.6., every *building* or part thereof shall be classified according to its *major occupancy* as belonging to one of the Groups or Divisions described in Table 3.1.2.1.

Table 3.1.2.1.

#### Major Occupancy Classification

Forming Part of Sentence 3.1.2.1.(1)

Group	Division	Description of <i>Major Occupancies</i>
A	1	<i>Assembly occupancies</i> intended for the production and viewing of the performing arts
A	2	<i>Assembly occupancies</i> not elsewhere classified in Group A
A	3	<i>Assembly occupancies</i> of the arena type
A	4	<i>Assembly occupancies</i> in which occupants are gathered in the open air
B	1	<i>Detention occupancies</i>
B	2	<i>Care and treatment occupancies</i>
B	3	<i>Care occupancies</i>
C	---	<i>Residential occupancies</i>
D	---	<i>Business and personal services occupancies</i>
E	---	<i>Mercantile occupancies</i>
F	1	<i>High hazard industrial occupancies</i>
F	2	<i>Medium hazard industrial occupancies</i>
F	3	<i>Low hazard industrial occupancies</i>
Column 1	2	3

(2) A *building* intended for use by more than one *major occupancy* shall be classified according to all *major occupancies* for which it is used or intended to be used.

#### 3.1.2.2. Occupancies of the Same Classification

(1) Any *building* is deemed to be occupied by a single *major occupancy*, notwithstanding its use for more than one *major occupancy*, provided that all *occupancies* are classified as belonging to the same Group classification or, where the Group is divided into Divisions, as belonging to the same Division classification described in Table 3.1.2.1.

#### 3.1.2.3. Arena Type Buildings

(1) An arena type *building* intended for occasional use for trade shows and similar exhibition purposes shall be classified as Group A, Division 3 *occupancy*.

(2) If the *building area* of an arena type *building* referred to in Sentence (1) is more than 1 500 m<sup>2</sup>, the *building* shall be *sprinklered*.

#### 3.1.2.4. Police Stations

(1) A police station with detention quarters is permitted to be classified as a Group B, Division 2 *major occupancy* provided the station is not more than 1 *storey* in *building height* and 600 m<sup>2</sup> in *building area*.

#### 3.1.2.5. Group B, Division 3 Occupancies

(1) Group B, Division 3 *occupancies* are permitted to be classified as Group C *major occupancies* provided

- (a) the occupants live as a single housekeeping unit in a *dwelling unit* with sleeping accommodation for not more than 10 persons, and
- (b) not more than 2 occupants require assistance in evacuation in case of an emergency.

#### 3.1.2.6. Restaurants

(1) A restaurant is permitted to be classified as a Group E *major occupancy* provided the restaurant is designed to accommodate not more than 30 persons consuming food or drink.

### 3.1.3. Multiple Occupancy Requirements

#### 3.1.3.1. Separation of Major Occupancies

(1) Except as permitted by Sentences (2) and (3), *major occupancies* shall be separated from adjoining *major occupancies* by *fire separations* having *fire-resistance ratings* conforming to Table 3.1.3.1.



Table 3.1.3.1.

**Major Occupancy Fire Separations<sup>(1)</sup>**

Forming Part of Sentence 3.1.3.1.(1)

Major Occupancy	Minimum Fire-Resistance Rating of Fire Separation, h <sup>(1)</sup>												
	Adjoining Major Occupancy												
	A-1	A-2	A-3	A-4	B-1	B-2	B-3	C	D	E	F-1	F-2	F-3
A-1	---	1	1	1	2	2	2	1	1	2	(2)	2	1
A-2	1	---	1	1	2	2	2	1	1	2	(2)	2	1
A-3	1	1	---	1	2	2	2	1	1	2	(2)	2	1
A-4	1	1	1	---	2	2	2	1	1	2	(2)	2	1
B-1	2	2	2	2	---	2	2	2	2	2	(2)	2	2
B-2	2	2	2	2	2	---	1	2	2	2	(2)	2	2
B-3	2	2	2	2	2	1	---	2	2	2	(2)	2	2
C	1	1	1	1	2	2	2	---	1	2 <sup>(3)</sup>	(2)	2 <sup>(4)</sup>	1
D	1	1	1	1	2	2	2	1	---	---	3	---	---
E	2	2	2	2	2	2	2	2 <sup>(3)</sup>	---	---	3	---	---
F-1	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	3	3	---	2	2
F-2	2	2	2	2	2	2	2	2 <sup>(4)</sup>	---	---	2	---	---
F-3	1	1	1	1	2	2	2	1	---	---	2	---	---
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14

**Notes to Table 3.1.3.1.:**

(1) Section 3.3. contains requirements for the separation of *occupancies* and *tenancies* that are in addition to the requirements for the separation of *major occupancies*.

(2) See Sentence 3.1.3.2.(1).

(3) See Sentence 3.1.3.1.(2).

(4) See Sentence 3.1.3.2.(2).

(2) In a *building* not more than 3 storeys in *building height*, if not more than 2 *dwelling units* are contained together with a Group E *major occupancy*, the *fire-resistance rating* of the *fire separation* between the 2 *major occupancies* need not be more than 1 h.

(3) The *fire separations* required between *major occupancies* in Sentence (1) are permitted to be penetrated by floor openings protected in conformance with Subsection 3.2.8., except for *fire separations* for Group F, Division 1 *major occupancies* and for *mezzanines* described in Sentence 3.2.8.2.(1).

**3.1.3.2. Prohibition of Occupancy Combinations**

(1) No *major occupancy* of Group F, Division 1 shall be contained within a *building* with any *occupancy* classified as Group A, B or C.

(2) Except as provided in Sentence (4) and Sentence 3.10.2.4.(9), not more than one *suite of residential occupancy* shall be contained within a *building* classified as a Group F, Division 2 *major occupancy*.

(3) A sleeping room or sleeping area shall not open directly into a room or area where food is intended to be stored, prepared, processed, distributed, served, sold or offered for sale.

(4) A Group F, Division 2 *major occupancy* is permitted in a *building* containing only *live/work units* and is for the exclusive use of the occupants of the *live/work units*.

**3.1.4. Combustible Construction****3.1.4.1. Combustible Materials Permitted**

(1) A *building* permitted to be of *combustible construction* is permitted to be constructed of *combustible materials* described in Part 9, with or without *noncombustible* components.

**3.1.4.2. Protection of Foamed Plastics**

(1) Foamed plastics which form part of a wall or ceiling assembly in *combustible construction* shall be protected from adjacent spaces in the *building*, other than adjacent concealed spaces within *attic* or *roof spaces*, *crawl spaces*, and *wall assemblies*

(a) by one of the interior finishes described in Subsections 9.29.4. to 9.29.9.,

(b) by any thermal barrier that meets the requirements of Sentence 3.1.5.11.(2), or

(c) where the *building* does not contain a Group B or Group C *major occupancy*, by sheet metal

(i) mechanically fastened to the supporting assembly independent of the insulation,

(ii) not less than 0.38 mm thick, and

(iii) with a melting point not below 650°C.

**3.1.4.3. Wires and Cables**

(1) Optical fibre cables and electrical wires and cables installed in a *building* permitted to be of *combustible construction* shall

(a) not convey flame or continue to burn for more than 1 min when tested in conformance with the Vertical Flame Test in Clause 4.11.1. of CAN/CSA-C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables", or

(b) be located in

(i) totally enclosed *noncombustible* raceways,

(ii) concealed spaces in walls,

(iii) concrete slabs, or

(iv) totally enclosed nonmetallic raceways conforming to Article 3.1.5.19.

(2) The requirement in Clause (1)(a) is considered to be met where the wires and cables

(a) exhibit a vertical char of not more than 1.5 m when tested in conformance with the Vertical Flame Test - Cables in Cable-trough in Clause 4.11.4. of CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT4 Rating), or

(b) exhibit a flame-spread of not more than 1.5 m, a smoke density of not more than 0.5 at peak optical density and a smoke density not more than 0.15 at average optical density when tested in conformance with the Flame and Smoke Test in the Appendix to CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT6 Rating).

(3) Service-entrance cables for communication and community antennae distribution systems need not conform to Sentence (1) provided

(a) the service-entrance cables are located in a *building* permitted to be of *combustible construction* and are not more than 3 m in length from the point of entry into the *building* or from the point of leaving protection as required in Clause (1)(b), or

(b) the service entrance cables enter into an electrical or telephone *service room* separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

### 3.1.4.4. Fire-Retardant Treated Wood

(1) If *fire-retardant treated wood* is specified in this Part, the wood shall

(a) be pressure impregnated with fire-retardant chemicals in conformance with CAN/CSA-O80 Series-M, "Wood Preservation", and

(b) have a *flame-spread rating* not more than 25.

### 3.1.4.5. Heavy Timber Construction Alternative

(1) If *combustible construction* is permitted and is not required to have a *fire-resistance rating* more than 45 min, *heavy timber construction* is permitted to be used.

(2) If *heavy timber construction* is permitted, it shall conform to Article 3.1.4.6.

### 3.1.4.6. Heavy Timber Construction

(1) Wood elements in *heavy timber construction* shall be arranged in heavy solid masses and with essentially smooth flat surfaces to avoid thin sections and sharp projections.

(2) The actual dimensions of solid sawn lumber used in *heavy timber construction* shall conform to CAN/CSA-O141, "Softwood Lumber".

(3) Except as permitted by Sentences (4) to (7), the minimum dimensions of wood elements in *heavy timber construction* shall conform to Table 3.1.4.6.

Table 3.1.4.6.

### Heavy Timber Dimensions

Forming Part of Sentence 3.1.4.6.(3)

Supported Assembly	Structural Element	Solid Sawn (width x depth), mm x mm	Glued-Laminated (width x depth), mm x mm	Round (diam), mm
Roofs only	Columns	140 x 191	130 x 190	180
	Arches supported on the tops of walls or abutments	89 x 140	80 x 152	---
	Beams, girders and trusses	89 x 140	80 x 152	---
	Arches supported at or near the floor line	140 x 140	130 x 152	---
Floors, floors plus roofs	Columns	191 x 191	175 x 190	200
	Beams, girders, trusses and arches	140 x 241 or 191 x 191	130 x 228 or 175 x 190	---
Column 1	2	3	4	5

(4) Roof arches supported on the tops of walls or abutments, roof trusses, roof beams and roof girders in *heavy timber construction* shall be spliced when necessary with splice plates not less than 64 mm thick and be

- (a) not less than 64 mm wide where 2 or more spaced members are used for the construction, with intervening spaces
  - (i) blocked solidly throughout, or
  - (ii) tightly closed by a continuous wood cover plate not less than 38 mm thick secured to the underside of the members, or
- (b) not less than 64 mm wide, provided there is automatic sprinkler protection under the roof deck.

(5) Floors in *heavy timber construction* shall be of glued-laminated or solid sawn plank not less than

- (a) 64 mm thick, splined or tongued and grooved, or
- (b) 38 mm wide and 89 mm deep set on edge and well-spiked together.

(6) Floors in *heavy timber construction* shall be laid

- (a) so that no continuous line of end joints will occur except at points of support, and covered with
  - (i) tongued and grooved flooring not less than 19 mm thick laid cross-wise or diagonally, or
  - (ii) tongued and grooved phenolic-bonded plywood, strand-board or waferboard not less than 12.5 mm thick, and
- (b) not closer than 15 mm to the walls to provide for expansion, with the gap covered at the top or bottom.

(7) Roofs in *heavy timber construction* shall be of tongued and grooved phenolic-bonded plywood not less than 28 mm thick, or glued-laminated or solid sawn plank that is

- (a) not less than 38 mm thick, splined or tongued and grooved, or
- (b) not less than 38 mm wide and 64 mm deep set on edge and laid so that no continuous line of end joints will occur except at the points of support.

(8) Wood columns in *heavy timber construction* shall be continuous or superimposed throughout all storeys.

(9) Superimposed wood columns in *heavy timber construction* shall be connected by

- (a) reinforced concrete or metal caps with brackets,
- (b) steel or iron caps with pintles and base plates, or
- (c) timber splice plates fastened to the columns by metal connectors housed within the contact faces.

(10) Where beams and girders in *heavy timber construction* enter masonry, wall plates, boxes of the self-releasing type or hangers shall be used.

(11) Wood girders and beams in *heavy timber construction* shall be closely fitted to columns, and adjoining ends shall be connected by ties or caps to transfer horizontal loads across the joints.

(12) In *heavy timber construction*, intermediate wood beams used to support a floor shall be supported on top of the girders or on metal hangers into which the ends of the beams are closely fitted.

### 3.1.4.7. Fabric Canopies

(1) Where a *building* is permitted to be of *combustible construction*, fabrics or films used as part of an exterior *canopy* shall conform to CAN/ULC-S109-M, "Standard for Flame Tests of Flame-Resistant Fabrics and Films".

### 3.1.5. Noncombustible Construction

#### 3.1.5.1. Noncombustible Materials

(1) Except as permitted by Articles 3.1.5.2. to 3.1.5.23., 3.1.13.4. and 3.2.2.16., a *building* or part of a *building* required to be of *noncombustible construction*, shall be constructed with *noncombustible materials*.

#### 3.1.5.2. Minor Combustible Components

(1) The following minor *combustible* components are permitted in a *building* required to be of *noncombustible construction*:

- (a) paint,
- (b) tightly adhering paper covering not more than 1 mm thick applied to a *noncombustible* backing provided the assembly has a *flame-spread rating* not more than 25,
- (c) mastics and caulking materials applied to provide flexible seals between the major components of exterior wall construction,
- (d) fire stop materials conforming to Sentence 3.1.9.1.(1) and Article 3.1.11.7.,
- (e) tubing for pneumatic controls provided it has an outside diameter not more than 10 mm,
- (f) adhesives, *vapour barriers* and sheathing papers,
- (g) electrical outlet and junction boxes,
- (h) wood blocking within wall assemblies intended for the attachment of handrails, fixtures, and similar items mounted on the surface of the wall, and
- (i) similar minor components.

#### 3.1.5.3. Combustible Roofing Materials

(1) *Combustible* roof covering which has an A, B, or C classification determined in conformance with Subsection 3.1.15. is permitted on a *building* required to be of *noncombustible construction*.

(2) *Combustible* roof sheathing and roof sheathing supports installed above a concrete deck are permitted on a *building* required to be of *noncombustible construction* provided

- (a) the concrete deck is not less than 50 mm thick,
- (b) the height of the roof space above the deck is not more than 1 000 mm,
- (c) the roof space is divided into compartments by fire stops in conformance with Article 3.1.11.5.,
- (d) openings through the concrete deck other than for *noncombustible* roof drains and plumbing piping are protected by masonry or concrete shafts



- (i) constructed as *fire separations* having a *fire-resistance rating* not less than 1 h, and
  - (ii) extending from the concrete deck to not less than 150 mm above the adjacent roof sheathing,
- (e) the perimeter of the roof is protected by a *noncombustible* parapet extending from the concrete deck to not less than 150 mm above the adjacent sheathing, and
- (f) except as permitted by Clause (d), the roof space does not contain any *building services*.

(3) *Combustible* cant strips, roof curbs, nailing strips and similar components used in the installation of roofing are permitted on a *building* required to be of *noncombustible construction*.

(4) Wood nailer facings to parapets, not more than 600 mm high, are permitted on a *building* required to be of *noncombustible construction*, if the facings and any roof membranes covering the facings are protected by sheet metal.

#### 3.1.5.4. Combustible Glazing and Skylights

(1) *Combustible* skylight assemblies are permitted in a *building* required to be of *noncombustible construction* if the assemblies have a *flame-spread rating* not more than

- (a) 150 provided the assemblies
  - (i) have an individual area not more than 9 m<sup>2</sup>,
  - (ii) have an aggregate horizontal projected area of the openings through the ceiling not more than 25% of the area of the ceiling of the room or space in which they are located, and
  - (iii) are spaced not less than 2 500 mm from adjacent assemblies and 1 200 mm from required *fire separations*, or
- (b) 75 provided the assemblies
  - (i) have an individual area not more than 27 m<sup>2</sup>,
  - (ii) have an aggregate horizontal projected area of the openings through the ceiling not more than 33% of the area of the ceiling of the room or space in which they are located, and
  - (iii) are spaced not less than 1 200 mm from adjacent assemblies and from required *fire separations*.

(2) *Combustible* vertical glazing installed no higher than the second *storey* is permitted in a *building* required to be of *noncombustible construction*.

(3) Except as permitted by Sentence (4), the *combustible* vertical glazing permitted by Sentence (2) shall have a *flame-spread rating* not more than 75.

(4) The *flame-spread rating* of *combustible* glazing in Sentence (2) is permitted to be not more than 150 if the aggregate area of glazing is not more than 25% of the wall area of the *storey* in which it is located, and

- (a) the glazing is installed in a *building* not more than 1 *storey* in *building height*,
- (b) the glazing in the *first storey* is separated from the glazing in the second *storey* in accordance with the requirements of Article 3.2.3.16. for opening protection, or

- (c) sprinklers are installed in
    - (i) any *storey* with *combustible* glazing, and
    - (ii) the *storey* immediately above the *storey* with *combustible* glazing.
- (5) *Combustible* window sashes and frames are permitted in a *building* required to be of *noncombustible construction* provided
- (a) each window in an exterior wall face is an individual unit separated by *noncombustible* wall construction from every other opening in the wall,
  - (b) windows in exterior walls in contiguous *storeys* are separated by not less than 1 000 mm of *noncombustible construction*, and
  - (c) the aggregate area of openings in an exterior wall face of a *fire compartment* is not more than 40% of the area of the wall face.

#### 3.1.5.5. Combustible Components for Exterior Walls

(1) Except for an *exposing building face* required to conform to Sentence 3.2.3.7.(1) or Sentence 3.2.3.7.(4), an exterior non-loadbearing wall assembly that includes *combustible* components is permitted to be used in a *building* required to be of *noncombustible construction* provided

- (a) the *building* is
  - (i) not more than 3 *storeys* in *building height*, or
  - (ii) not more than 6 *storeys* in *building height* if *sprinklered*,
- (b) the interior surfaces of the wall assembly are protected by a thermal barrier conforming to Sentence 3.1.5.11.(3), and
- (c) the wall assembly satisfies the criteria of Sentences (2) and (3) when subjected to testing in conformance with CAN/ULC-S134, "Standard Method of Fire Test of Exterior Wall Assemblies".

(2) Flaming on or in the wall assembly shall not spread more than 5 m above the opening during the test procedure referenced in Sentence (1).

(3) The heat flux during the flame exposure on a wall assembly shall be not more than 35 kW/m<sup>2</sup> measured 3.5 m above the opening during the test procedure referenced in Sentence (1).

(4) A wall assembly permitted by Sentence (1) that includes *combustible* cladding of *fire-retardant treated wood* shall be tested for fire exposure after the cladding has been subjected to an accelerated weathering test as specified in ASTM D2898, "Methods for Accelerated Weathering on Fire-Retardant-Treated Wood for Fire Testing".

(5) Wood decorative cladding is permitted to be used on exterior *canopy* fascias of a *building* required to be of *noncombustible construction* provided the cladding is *fire-retardant treated wood* that has been, before testing, conditioned in conformance with ASTM D2898, "Methods for Accelerated Weathering on Fire-Retardant-Treated Wood for Fire Testing", and the *canopy* is

- (a) a first floor *canopy*, or
- (b) not more than 6 m above ground level

(6) The requirements in this Article do not apply where foamed plastic insulation is used in an exterior wall assembly of a *building* and the insulation is protected in conformance with Sentences 3.2.3.7.(7) and (8).

**3.1.5.6. Nailing Elements**

(1) Wood nailing elements attached directly to or set into a continuous *noncombustible* backing for the attachment of interior finishes, are permitted in a *building* required to be of *noncombustible construction* provided the concealed space created by the wood elements is not more than 50 mm thick.

**3.1.5.7. Combustible Millwork**

(1) *Combustible* millwork including interior trim, doors and door frames, show windows together with their frames, aprons and backing, handrails, shelves, cabinets and counters is permitted in a *building* required to be of *noncombustible construction*.

**3.1.5.8. Combustible Flooring Elements**

(1) *Combustible stage* flooring supported on *noncombustible* structural members is permitted in a *building* required to be of *noncombustible construction*.

(2) Wood members more than 50 mm but not more than 375 mm high applied directly to or set into a *noncombustible* floor slab are permitted for the construction of a raised platform in a *building* required to be of *noncombustible construction* provided the concealed spaces are fire stopped in conformance with Sentence 3.1.11.3.(2).

(3) The floor system for the raised platform referred to in Sentence (2) is permitted to include *combustible* subfloor and *combustible* finished flooring.

(4) *Combustible* finished flooring is permitted in a *building* required to be of *noncombustible construction*.

**3.1.5.9. Combustible Stairs in Dwelling Units**

(1) *Combustible* stairs are permitted in a *dwelling unit* in a *building* required to be of *noncombustible construction*.

**3.1.5.10. Combustible Interior Finish**

(1) *Combustible* interior finish, including paint, wallpaper, and other interior finishes not more than 1 mm thick, is permitted in a *building* required to be of *noncombustible construction*.

(2) *Combustible* interior wall finishes, other than foamed plastics, are permitted in a *building* required to be of *noncombustible construction* provided they

- (a) are not more than 25 mm thick, and
- (b) have a *flame-spread rating* not more than 150 on any exposed surface, or any surface that would be exposed by cutting through the material in any direction.

(3) *Combustible* interior ceiling finishes, other than foamed plastics, are permitted in a *building* required to be of *noncombustible construction* provided they

- (a) are not more than 25 mm thick, except for exposed *fire-retardant treated wood battens*, and
- (b) have a *flame-spread rating* not more than 25 on any exposed surface, or on any surface that would be exposed by cutting through the material in any direction, or are of *fire-retardant treated wood*, except that not more than 10% of the ceiling area within each *fire compartment* is permitted to have a *flame-spread rating* not more than 150.

**3.1.5.11. Combustible Insulation and its Protection**

(1) *Combustible* insulation, other than foamed plastics, is permitted in a *building* required to be of *noncombustible construction* provided that it has a *flame-spread rating* not more than 25 on any exposed surface, or any surface that would be exposed by cutting through the material in any direction, where the insulation is not protected as described in Sentences (3) and (4).

(2) Foamed plastic insulation having a *flame-spread rating* not more than 25 on any exposed surface, or any surface that would be exposed by cutting through the material in any direction, is permitted in a *building* required to be of *noncombustible construction* provided the insulation is protected from adjacent space in the *building*, other than adjacent concealed spaces within wall assemblies, by a thermal barrier consisting of

- (a) not less than 12.7 mm thick gypsum board mechanically fastened to a supporting assembly independent of the insulation,
- (b) lath and plaster, mechanically fastened to a supporting assembly independent of the insulation,
- (c) masonry,
- (d) concrete, or
- (e) any thermal barrier that meets the requirements of classification B when tested in conformance with CAN4-S124-M, "Standard Method of Test for the Evaluation of Protective Coverings for Foamed Plastic".

(3) *Combustible* insulation having a *flame-spread rating* more than 25 but not more than 500 on an exposed surface, or any surface that would be exposed by cutting through the material in any direction, is permitted in the exterior walls of a *building* required to be of *noncombustible construction*, provided the insulation is protected from adjacent space in the *building*, other than adjacent concealed spaces within wall assemblies, by a thermal barrier as described in Sentence (2), except that in a *building* that is not *sprinklered* and is more than 18 m high, measured between *grade* and the floor level of the top *storey*, or in a *building* that is not *sprinklered* and is regulated by the provisions of Subsection 3.2.6., the insulation shall be protected by a thermal barrier consisting of

- (a) gypsum board not less than 12.7 mm thick, mechanically fastened to a supporting assembly independent of the insulation and with all joints either backed or taped and filled,
- (b) lath and plaster, mechanically fastened to a supporting assembly independent of the insulation,
- (c) masonry or concrete not less than 25 mm thick, or
- (d) any thermal barrier that, when tested in conformance with CAN/ULC-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials", will not develop an average temperature rise more than 140°C or a maximum temperature rise more than 180°C at any point on its unexposed face within 10 min.

(4) *Combustible* insulation having a *flame-spread rating* more than 25 but not more than 500 on any exposed surface, or any surface that would be exposed by cutting through the material in any direction, is permitted in the interior walls, within ceilings and within roof assemblies of a *building* required to be of *noncombustible construction*, provided the insulation is protected from adjacent space in the *building*, other than adjacent concealed spaces within wall assemblies, by a thermal barrier as described in Sentence (2), except that in a *building* that is not *sprinklered* and is more than 18 m high, measured between *grade* and the floor level of the top *storey*, or in a *building* that is not



*sprinklered* and is regulated by the provisions of Subsection 3.2.6., the insulation shall be protected by a thermal barrier consisting of

- (a) Type X gypsum board not less than 15.9 mm thick, mechanically fastened to a supporting assembly independent of the insulation and with all joints either backed or taped and filled, conforming to
  - (i) CAN/CSA-A82.27-M, "Gypsum Board",
  - (ii) ASTM C 36, "Gypsum Wallboard",
  - (iii) ASTM C 442, "Gypsum Backing Board and Coreboard",
  - (iv) ASTM C 588, "Gypsum Base for Veneer Plaster",
  - (v) ASTM C 630, "Water Resistant Gypsum Board Backing",
  - (vi) ASTM C 931, "Exterior Gypsum Soffit Board", or
  - (vii) ASTM C 960, "Predecorated Gypsum Board",
- (b) non-loadbearing masonry or concrete not less than 50 mm thick,
- (c) loadbearing masonry or concrete not less than 75 mm thick, or
- (d) any thermal barrier that, when tested in conformance with CAN/ULC-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials",
  - (i) will not develop an average temperature rise more than 140°C or a maximum temperature rise more than 180°C at any point on its unexposed face within 20 min, and
  - (ii) will remain in place for not less than 40 min.

(5) *Combustible* insulation, including foamed plastics, installed above roof decks, outside of *foundation walls* below ground level and beneath concrete slabs-on-ground is permitted to be used in a *building* required to be of *noncombustible construction*.

(6) Thermosetting foamed plastic insulation having a *flame-spread rating* not more than 500 which forms part of a factory-assembled exterior wall panel that does not incorporate an air space is permitted to be used in a *building* required to be of *noncombustible construction* provided

- (a) the foamed plastic is protected on both sides by sheet steel not less than 0.38 mm thick which will remain in place for not less than 10 min when the wall panel is tested in conformance with CAN/ULC-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials",
- (b) the *flame-spread rating* of the wall panel, determined by subjecting a sample including an assembled joint to the appropriate test described in Subsection 3.1.12., is not more than the *flame-spread rating* permitted for the room or space which it bounds,
- (c) the *building* does not contain a Group B or Group C *major occupancy*, and
- (d) the *building* is not more than 18 m high, measured between *grade* and the floor level of the top *storey*.

(7) Foamed plastic insulation having a *flame-spread rating* of not more than 500 which forms part of a factory-assembled interior or exterior wall or ceiling panel that does not incorporate an air space is permitted to be used in a *building* required to be of *noncombustible construction* provided

- (a) the *building* is *sprinklered*,
- (b) the *building* is not more than 18 m high, measured between *grade* and the floor level of the uppermost *storey*,
- (c) the *building* does not contain a Group A, B or C *major occupancy*,
- (d) the panels are *listed* for compliance with ULC/ORD C376-1995, "Fire Growth of Foamed Plastic Insulated Building Panels in a Full-Scale Room Configuration", and
- (e) the *flame-spread rating* of the wall panel, determined by subjecting a sample, including an assembled joint, to the appropriate test described in Subsection 3.1.12., is not more than the *flame-spread rating* permitted for the room or space which it bounds.

### 3.1.5.12. Combustible Elements in Partitions

(1) Except as permitted by Sentence (2), solid lumber *partitions* not less than 38 mm thick and wood framing in *partitions* located in a *fire compartment* not more than 600 m<sup>2</sup> in area are permitted to be used in a *building* required to be of *noncombustible construction* in a *floor area* that is not *sprinklered* provided the *partitions*

- (a) are not required *fire separations*, and
- (b) are not located in a *care or detention occupancy*.

(2) *Partitions* installed in a *building* of *noncombustible construction* are permitted to contain wood framing provided

- (a) the *building* is not more than 3 *storeys* in *building height*,
- (b) the *partitions* are not located in a *care or detention occupancy*, and
- (c) the *partitions* are not installed as enclosures for *exits* or *vertical service spaces*.

(3) Solid lumber *partitions* not less than 38 mm thick and *partitions* that contain wood framing are permitted to be used in a *building* required to be of *noncombustible construction* provided

- (a) the *floor area* containing the *partitions* is *sprinklered*, and
- (b) the *partitions* are not
  - (i) located in a *care or detention occupancy*,
  - (ii) installed as enclosures for *exits* or *vertical service spaces*, or
  - (iii) used to satisfy the requirements of Clause 3.2.8.1.(1)(a).

### 3.1.5.13. Storage Lockers in Residential Buildings

(1) Storage lockers in storage rooms are permitted to be constructed of wood in a *building* of *residential occupancy* required to be of *noncombustible construction*.

### 3.1.5.14. Combustible Ducts

(1) Except as required by Sentence 3.6.4.3.(1), *combustible* ducts, including *plenums* and duct connectors, are permitted to be used in a *building* required to be of *noncombustible construction* provided these ducts and duct connectors are used only in horizontal runs.

(2) *Combustible* duct linings, duct coverings, duct insulation, vibration isolation connectors, duct tape, pipe insulation and pipe



coverings are permitted to be used in a *building* required to be of *noncombustible construction* provided they conform to the appropriate requirements of Part 6.

(3) In a *building* required to be of *noncombustible construction*, *combustible* ducts need not comply with the requirements of Part 6 provided the ducts are

- (a) part of a duct system conveying only ventilation air, and
- (b) contained entirely within a *dwelling unit*.

### 3.1.5.15. Combustible Piping Materials

(1) Except as permitted by Clause 3.1.5.2.(1)(e), Sentences (2) and (3), and Article 3.1.5.21., *combustible* piping and tubing and associated adhesives are permitted to be used in a *building* required to be of *noncombustible construction* provided that, except when concealed in a wall or concrete floor slab, they

- (a) have a *flame-spread rating* not more than 25, and
- (b) if used in a *building* described in Subsection 3.2.6., have a smoke developed classification not more than 50.

(2) *Combustible* sprinkler piping is permitted to be used within a *sprinklered floor area* in a *building* required to be of *noncombustible construction*.

(3) Polypropylene pipes and fittings are permitted to be used for drain, waste and vent piping for the conveyance of highly corrosive materials and for piping used to distribute distilled or dialyzed water in laboratory and hospital facilities in a *building* required to be of *noncombustible construction*, provided

- (a) the *building* is *sprinklered*,
- (b) the piping is not located in a vertical shaft, and
- (c) piping that penetrates a *fire separation* is sealed at the penetration by a fire stop system that, when subjected to the fire test method in CAN4-S115-M, "Standard Method of Fire Tests of Firestop Systems", has an FT rating not less than the *fire-resistance rating* of the *fire separation*.

### 3.1.5.16. Combustible Plumbing Fixtures

(1) *Combustible plumbing fixtures*, including wall and ceiling enclosures that form part of the *plumbing fixture*, are permitted in a *building* required to be of *noncombustible construction* provided they are constructed of material having a *flame-spread rating* and smoke developed classification not more than that permitted for the wall surface of the room or space in which they are installed.

### 3.1.5.17. Wires and Cables

(1) Except as permitted by Articles 3.1.5.18. and 3.1.5.20, optical fibre cables and electrical wires and cables with *combustible* insulation, jackets or sheathes are permitted in a *building* required to be of *noncombustible construction*, provided

- (a) the wires and cables exhibit a vertical char of not more than 1.5 m when tested in conformance with the Vertical Flame Test - Cables in Cabletrough in Clause 4.11.4. of CAN/CSA-C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT4 Rating),
- (b) the wires and cables are located in
  - (i) totally enclosed *noncombustible* raceways,

(ii) concealed spaces in walls,

(iii) concrete slabs,

(iv) a *service room* separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h, or

(v) totally enclosed nonmetallic raceways conforming to Article 3.1.5.19., or

(c) the wires and cables are communication cables used at the service entry to a *building* and are not more than 3 m long.

(2) The requirement in Clause (1)(a) is considered to be met where the wires and cables exhibit a flame-spread of not more than 1.5 m, a smoke density of not more than 0.5 at peak optical density and a smoke density not more than 0.15 at average optical density when tested in conformance with the Flame and Smoke Test in the Appendix to CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT6 Rating).

### 3.1.5.18. Combustible Travelling Cables for Elevators

(1) *Combustible* travelling cables are permitted on elevating devices in a *building* required to be of *noncombustible construction*.

### 3.1.5.19. Nonmetallic Raceways

(1) Totally enclosed nonmetallic raceways not more than 625 mm<sup>2</sup> in cross-sectional area are permitted to be used in a *building* required to be of *noncombustible construction* to enclose optical fibre cables and electrical wires and cables, provided the raceways exhibit a vertical char not more than 1.5 m when tested in conformance with the Vertical Flame Test (FT4 Rating) - Conduit or Tubing on Cable Tray in Clause 6.16 of CSA C22.2 No. 211.0-M, "General Requirements and Methods of Testing for Nonmetallic Conduit".

### 3.1.5.20. Wires in Computer Room Floors

(1) Optical fibre cables and electrical wires and cables with *combustible* insulation, jackets or sheathes, located in the space below a raised floor in a *computer room*, are permitted in a *building* required to be of *noncombustible construction* provided they do not convey flame or continue to burn for more than 1 min when tested in conformance with the Vertical Flame Test in Clause 4.11.1. of CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT1 Rating).

(2) The requirement in Sentence (1) is considered to be met where the wires and cables

- (a) exhibit a vertical char of not more than 1.5 m when tested in conformance with the Vertical Flame Test - Cables in Cabletrough in Clause 4.11.4. of CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT4 Rating), or
- (b) exhibit a flame-spread of not more than 1.5 m, a smoke density of not more than 0.5 at peak optical density and a smoke density not more than 0.15 at average optical density when tested in conformance with the Flame and Smoke Test in the Appendix to CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT6 Rating).

### 3.1.5.21. Combustible Components in Public Pools

(1) *Combustible* fittings and components in a *public pool*, including main drains, piping, skimmers, return inlets, steps, ladder rungs and liners are permitted in a *building* required to be of *noncombustible construction*.

**3.1.5.22. Canopies Having Combustible Elements**

(1) Exterior *canopies* having *combustible* fabrics or films are permitted on a *building* required to be of *noncombustible construction* provided the fabrics and films conform to CAN/ULC-S109-M, "Standard for Flame Tests of Flame-Resistant Fabrics and Films".

(2) Except as permitted in Sentence (3), exterior *marquees*, not greater than 7.5 m from ground level to the top of the *marquee*, having *combustible* elements other than fabrics or films conforming to Sentence (1), are permitted on a *building* required to be of *noncombustible construction*, provided every opening in the exposed wall of the *building* above the *marquee* is protected with wired glass in accordance with the Supplementary Guidelines where these openings are within

(a) 4.5 m horizontally of the *marquee*, and

(b) 9 m vertically above the *marquee*.

(3) The protection required by Sentence (2) is permitted to be waived if the *building* is *sprinklered*.

**3.1.5.23. Combustible Mezzanines**

(1) In a *building* required to be of *noncombustible construction*, a *mezzanine* located within a *live/work unit* is permitted to be of *combustible construction* provided the area of the *mezzanine* is not more than 25% of the *floor area* of the *live/work unit* or 20 m<sup>2</sup>, whichever is less, and has no obstructions more than 1 070 mm above the floor.

**3.1.6. Reserved****3.1.7. Fire-Resistance Ratings****3.1.7.1. Determination of Ratings**

(1) Except as permitted by Sentence (2) and Article 3.1.7.2., the rating of a material, assembly of materials or a structural member that is required to have a *fire-resistance rating*, shall be determined on the basis of the results of tests conducted in conformance with CAN/ULC-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials".

(2) A material, assembly of materials or a structural member is permitted to be assigned a *fire-resistance rating* on the basis of the Supplementary Guidelines.

**3.1.7.2. Exception for Exterior Walls**

(1) The limit on the rise of temperature on the unexposed surface of an assembly as required by the tests referred to in Sentence 3.1.7.1.(1) shall not apply to an exterior wall that has a *limiting distance* of 1.2 m or more, provided correction is made for radiation from the unexposed surface in accordance with Sentence 3.2.3.1.(6).

**3.1.7.3. Exposure Conditions for Rating**

(1) Floor, roof and ceiling assemblies shall be rated for exposure to fire on the underside.

(2) *Firewalls* and interior vertical *fire separations* shall be rated for exposure to fire on each side.

(3) Exterior walls shall be rated for exposure to fire from inside the *building*.

**3.1.7.4. Minimum Fire-Resistance Rating**

(1) The use of materials or assemblies having a greater *fire-resistance rating* than required shall impose no obligation to exceed in whole or in part the minimum *fire-resistance ratings* required by this Part.

**3.1.7.5. Rating of Supporting Construction**

(1) Except as permitted by Sentence (2) and by Articles 3.2.2.20. to 3.2.2.83. for mixed types of construction, all *loadbearing* walls, columns and arches in the *storey* immediately below a floor or roof assembly required to have a *fire-resistance rating* shall have a *fire-resistance rating* not less than that required for the supported floor or roof assembly.

(2) *Loadbearing* walls, columns and arches supporting a *service room* or *service space* need not conform to Sentence (1).

(3) If an assembly is required to be of *noncombustible construction* and have a *fire-resistance rating*, it shall be supported by *noncombustible construction*.

**3.1.8. Fire Separations and Closures****3.1.8.1. General Requirements**

(1) Any wall, *partition* or floor assembly required to be a *fire separation* shall

(a) except as permitted by Sentence (2), be constructed as a continuous element, and

(b) as required in this Part, have a *fire-resistance rating* as specified.

(2) Openings in a *fire separation* shall be protected with *closures*, shafts or other means in conformance with Articles 3.1.8.4. to 3.1.8.17. and Subsections 3.1.9. and 3.2.8.

**3.1.8.2. Combustible Construction Support**

(1) *Combustible construction* that abuts on or is supported by a *noncombustible fire separation* shall be constructed so that its collapse under fire conditions will not cause the collapse of the *fire separation*.

**3.1.8.3. Continuity of Fire Separations**

(1) Except as permitted by Sentence 3.6.4.2.(2), a *horizontal service space* or other concealed space located above a required vertical *fire separation*, including the walls of a vertical shaft, shall be divided at the *fire separation* by an equivalent *fire separation* within the *service space*.

(2) The *fire separation* required by Sentence (1) shall terminate so that smoke-tight joints are provided where it abuts on or intersects

(a) a floor,

(b) a roof slab, or

(c) a roof deck.

(3) Except as required by Subsection 3.6.3. for a shaft penetrating a roof assembly, a shaft, including an *exit* enclosure, that penetrates a *fire separation*, shall

(a) extend through any *horizontal service space* or any other concealed space, and

(b) terminate so that smoke-tight joints are provided where the shaft abuts on or intersects



- (i) a floor,
- (ii) a roof slab, or
- (iii) a roof deck.

#### 3.1.8.4. Determination of Ratings

(1) Except as permitted by Sentences (2) and 3.1.8.14.(2), the *fire-protection rating* for a *closure* shall be determined on the basis of the results of tests conducted in conformance with the appropriate provisions in

- (a) CAN4-S104-M, "Standard Method for Fire Tests of Door Assemblies",
- (b) CAN4-S106-M, "Standard Method for Fire Tests of Window and Glass Block Assemblies", or
- (c) CAN/ULC-S112-M, "Standard Method of Fire Test of Fire-Damper Assemblies".

(2) Except as permitted by Sentence 3.1.8.10.(1), the *fire-protection rating* of a *closure* shall conform to Table 3.1.8.4. for the required *fire-resistance rating* of the *fire separation*.

Table 3.1.8.4.

#### Fire Protection Rating of Closure

Forming Part of Sentence 3.1.8.4.(2)

Fire-Resistance Rating of Fire Separation	Required Fire-Protection Rating of Closure
30 min	20 min
45 min	45 min
1 h	45 min
1.5 h	1 h
2 h	1.5 h
3 h	2 h
4 h	3 h
Column 1	2

#### 3.1.8.5. Installation of Closures

(1) Except where fire dampers, window assemblies and glass block are used as *closures*, *closures* of the same *fire-protection rating* installed on opposite sides of the same opening are deemed to have a *fire-protection rating* equal to the sum of the *fire-protection ratings* of the *closures*.

(2) Except as otherwise specified in this Part, every door, window assembly or glass block used as a *closure* in a required *fire separation*

- (a) shall be installed in conformance with NFPA 80, "Standard for Fire Doors and Fire Windows", and
- (b) where required to have a *fire-protection rating*, shall have labels or classification marks to identify the testing laboratory.

(3) If a door is installed so that it could damage the integrity of a *fire separation* if its swing is unrestricted, door stops shall be installed to prevent the damage.

#### 3.1.8.6. Maximum Openings

(1) The size of an opening in an interior *fire separation* required to be protected with a *closure* shall be not more than 11 m<sup>2</sup>, with no dimension more than 3.7 m, if a *fire compartment* on either side of the *fire separation* is not *sprinklered*.

(2) The size of an opening in an interior *fire separation* required to be protected with a *closure* shall be not more than 22 m<sup>2</sup>, with no dimension more than 6 m, provided the *fire compartments* on both sides of the *fire separation* are *sprinklered*.

#### 3.1.8.7. Fire Dampers

(1) Except as permitted by Article 3.1.8.8., a duct that connects 2 *fire compartments* or that penetrates an assembly required to be a *fire separation* shall be equipped with a *fire damper*.

(2) A *fire damper* required by Sentence (1) or a *fire damper* used as a *closure* in a *fire separation* shall have a *fire-protection rating* conforming to Sentence 3.1.8.4.(2).

#### 3.1.8.8. Fire Dampers Waived

(1) *Fire dampers* need not be provided in *noncombustible* branch ducts that have a melting point above 760°C and that penetrate a required *fire separation* provided the ducts

- (a) serve only air-conditioning units or combined air-conditioning and heating units discharging air not more than 1 200 mm above the floor and have a cross-sectional area not more than 0.013 m<sup>2</sup>, or
- (b) are connected to exhaust duct risers that are under negative pressure and in which the air flow is upward as required by Article 3.6.3.4. and are carried up inside the riser not less than 500 mm.

(2) A continuous *noncombustible* duct penetrating a vertical *fire separation* not required to have a *fire-resistance rating* need not be equipped with a *fire damper* at the *fire separation*.

(3) A *noncombustible* duct that penetrates a horizontal *fire separation* not required to have a *fire-resistance rating* need not be equipped with a *fire damper* at the *fire separation*.

(4) A *noncombustible* duct that penetrates a *fire separation* that separates a vertical *service space* from the remainder of the building need not be equipped with a *fire damper* at the *fire separation* provided

- (a) the duct has a melting point above 760°C, and
- (b) each individual duct exhausts directly to the outside at the top of the vertical *service space*.

(5) A continuous *noncombustible* duct having a melting point above 760°C that penetrates a vertical *fire separation* as required by Sentence 3.3.1.1.(1) between *suites* of other than *residential* or *care or detention occupancy* need not be equipped with a *fire damper* at the *fire separation*.

(6) A duct that serves commercial cooking equipment and penetrates a required *fire separation* need not be equipped with a *fire damper* at the *fire separation*.

(7) In elementary and secondary schools, a continuous *noncombustible* duct having a melting point above 760°C that pierces a *fire separation* having a *fire-resistance rating* of 30 min need not be equipped with a *fire damper* at the *fire separation*.



**3.1.8.9. Installation of Fire Dampers**

(1) A *fire damper* shall be arranged to close automatically upon the operation of a fusible link conforming to ULC-S505, "Standard for Fusible Links for Fire Protection Service", or other heat-actuated or smoke-actuated device.

(2) A heat-actuated device referred to in Sentence (1) shall

- (a) be located where it is readily affected by an abnormal rise of temperature in the duct, and
- (b) have a temperature rating approximately 30°C above the maximum temperature that would exist in the system either with the system in operation or shut down.

(3) A *fire damper* shall be installed in the plane of the *fire separation* so as to stay in place should the duct be dislodged during a fire.

(4) A *fire damper* tested in the vertical or horizontal position shall be installed in the manner in which it was tested.

(5) A tightly fitted access door shall be installed for each *fire damper* to provide access for the inspection of the damper and the resetting of the release device.

**3.1.8.10. Twenty-Minute Closures**

(1) A door assembly having a *fire-protection rating* not less than 20 min is permitted to be used as a *closure* in

- (a) a *fire separation* not required to have a *fire-resistance rating* more than 1 h, located between
  - (i) a *public corridor* and a *suite*,
  - (ii) a corridor and adjacent sleeping rooms, or
  - (iii) a corridor and adjacent classrooms, offices and libraries in Group A, Division 2 *major occupancies*, or
- (b) a *fire separation* not required to have a *fire-resistance rating* more than 45 min, located in a *building* not more than 3 *storeys* in *building height*.

(2) The requirements for *noncombustible* sills and *combustible* floor coverings in NFPA 80, "Standard for Fire Doors and Fire Windows", do not apply to a door described in Sentence (1).

(3) A door described in Sentence (1) shall have a clearance not more than 6 mm at the bottom and not more than 3 mm at the sides and top.

(4) In elementary and secondary schools, a door assembly conforming to Articles 9.10.13.2. and 9.10.13.3. is permitted to be used as a *closure* in a *fire separation* having a *fire-resistance rating* of 30 min.

**3.1.8.11. Self-Closing Devices**

(1) Except as provided in Sentences (2) to (5), every door in a *fire separation* shall be equipped with a self-closing device designed to return the door to the closed position after each use.

(2) Self-closing devices need not be provided on doors to freight elevators and dumbwaiters.

(3) In a *building* that is not more than 3 *storeys* in *building height*, a self-closing device is not required on a door that is located between a classroom and a corridor providing *access to exit* from the classroom, except that a self-closing device is required on a door between a

*hazardous classroom* and the corridor in an elementary or secondary school.

(4) In a *building* that is not more than 3 *storeys* in *building height*, a self-closing device is not required on a door between a *public corridor* and an adjacent room or *suite* of *business and personal services occupancy* if the door is not located in

- (a) a dead-end portion of the corridor, or
- (b) a corridor which serves a *hotel*.

(5) Within a *fire compartment* in a hospital or nursing home that complies with the requirements of Article 3.3.3.5., a self-closing device is not required on a door that is located between

- (a) a patient's or resident's sleeping room and a corridor serving the patient's or resident's sleeping room, or
- (b) a patient's or resident's sleeping room and an adjacent room that serves the patient's or resident's sleeping room.

**3.1.8.12. Hold-Open Devices**

(1) A hold-open device is permitted on a door in a required *fire separation*, other than an *exit* door in a *building* more than 3 *storeys* in *building height*, and on a door for a vestibule required by Article 3.3.5.7., provided the device is designed to release the door in conformance with Sentences (2) to (7).

(2) Except as required by Sentences (3), (5), (6) and (7), a hold-open device permitted by Sentence (1) shall be designed to release by a signal from

- (a) an automatic sprinkler system,
- (b) a heat-actuated device,
- (c) fusible link, or
- (d) a *smoke detector* located as described in Appendix B of NFPA 80, "Standard for Fire Doors and Fire Windows".

(3) Except as required by Sentences (4), (5), (6) and (7), a hold-open device permitted by Sentence (1) shall be designed to release upon a signal from a *smoke detector* located as described in Appendix B of NFPA 80, "Standard for Fire Doors and Fire Windows", if used on

- (a) an *exit* door,
- (b) a door opening into a *public corridor*,
- (c) an egress door referred to in Sentence 3.4.2.4.(2),
- (d) a door serving
  - (i) an *assembly occupancy*,
  - (ii) a *care or detention occupancy*, or
  - (iii) a *residential occupancy*, or
- (e) a door required to function as part of a smoke control system.

(4) Except as required by Sentences (5), (6) and (7), a hold-open device permitted by Sentence (1) shall be designed to release upon a signal from the *building* fire alarm system if a fire alarm system is provided, except that this requirement does not apply to

- (a) a hold-open device on a door located between a corridor used by the public and an adjacent sleeping room in a hospital or nursing home, or

- (b) a hold-open device that is designed to release by a heat-actuated device or a fusible link in conformance with Sentence (2).

(5) Sentences (2) and (3) do not apply in a hospital or nursing home to

- (a) a door located between a corridor used by the public and an adjacent sleeping room, or

- (b) paired doors described in Sentence 3.3.3.3.(4).

(6) A hold-open device on a door in Clause (5)(a) shall be designed to release the door upon a signal from

- (a) a *smoke detector* as required by Sentence 3.2.4.11.(1) for sleeping rooms in Group B *occupancies*, and

- (b) the fire alarm system when an *alert signal* is initiated within the same *fire compartment* in Sentence 3.3.3.5.(2).

(7) A hold-open device on a door in Clause (5)(b) shall be designed to release the door upon a signal from the fire alarm system when an *alert signal* is initiated within the same *fire compartment* in Sentence 3.3.3.5.(2).

(8) A rolling steel fire door installed as a *closure* in a *fire separation* shall be equipped with a hold-open device designed to release the shutter as described in Sentence (2).

### 3.1.8.13. Door Latches

(1) Except as permitted by Article 3.3.3.5., a swing-type door in a *fire separation* shall be equipped with a positive latching mechanism designed to hold the door in the closed position after each use.

### 3.1.8.14. Wired Glass and Glass Block

(1) Except as permitted by Articles 3.1.8.16. and 3.1.8.17. for the separation of *exits*, an opening in a *fire separation* having a *fire-resistance rating* not more than 1 h is permitted to be protected with fixed wired glass assemblies or glass blocks installed in conformance with NFPA 80, "Standard for Fire Doors and Fire Windows".

(2) Wired glass assemblies permitted by Sentence (1) and assigned a fire protection capability in the Supplementary Guidelines, are permitted to be used as *closures* in vertical *fire separations* without being tested in accordance with Sentence 3.1.8.4.(1).

(3) Glass blocks permitted by Sentence (1) shall be installed in accordance with Subsection 4.3.2. and reinforced with steel reinforcement in each horizontal joint.

### 3.1.8.15. Temperature Rise Limit for Doors

(1) Except as permitted by Article 3.1.8.17., the maximum temperature rise on the opaque portion of the unexposed side of a door used as a *closure* in a *fire separation* in a location shown in Table 3.1.8.15., shall conform to the Table when tested in conformance with Sentence 3.1.8.4.(1).

### 3.1.8.16. Area Limits for Wired Glass and Glass Block

(1) Except as permitted by Article 3.1.8.17., the maximum area of wired glass in a door used in the locations shown in Table 3.1.8.15. shall conform to the Table.

(2) Except as permitted by Article 3.1.8.17., the maximum area of glass block and wired glass panels not in a door, used in the locations shown in Table 3.1.8.15., shall conform to the Table.

Table 3.1.8.15.

### Restrictions on Temperature Rise and Glazing for Closures

Forming Part Articles of 3.1.8.15. and 3.1.8.16.

Location	Minimum Required Fire-Protection Rating of Door	Maximum Temperature Rise on Opaque Portion of Unexposed Side of Door, °C	Maximum Area of Wired Glass in Door, m <sup>2</sup>	Maximum Aggregate Area of Glass Block and Wired Glass Panels not in Door, m <sup>2</sup>
Between a dead-end corridor and an adjacent <i>occupancy</i> where the corridor provides the only <i>access to exit</i> and is required to have a <i>fire-resistance rating</i>	Less than 45 min	No limit	No limit	No limit
	45 min	250 after 30 min	0.0645	0.0645
Between an <i>exit</i> enclosure and the remainder of the <i>floor area</i> in <i>buildings</i> not more than 3 <i>storeys</i> in <i>building height</i>	All ratings	No limit	0.8	0.8
Between an <i>exit</i> enclosure and the remainder of the <i>floor area</i> (except as permitted above)	45 min	250 after 30 min	0.0645	0.0645
	1.5 h	250 after 1 h	0.0645	0.0645
	2 h	250 after 1 h	0.0645	0.0645
In a <i>firewall</i>	1.5 h	250 after 30 min	0.0645	0
	2 h	250 after 1 h	0	0
Column 1	2	3	4	5



**3.1.8.17. Temperature Rise and Area Limits Waived**

(1) The temperature rise limits and glass area limits required by Articles 3.1.8.15. and 3.1.8.16. are waived for a *closure* between an *exit* enclosure and an enclosed vestibule or corridor provided

- (a) the vestibule or corridor is separated from the remainder of the *floor area* by a *fire separation* having a *fire-resistance rating* not less than 45 min,
- (b) the *fire separation* required by Clause (a) contains no wired glass or glass block within 3 m of the *closure* into the *exit* enclosure, and
- (c) the vestibule or corridor contains no *occupancy*.

**3.1.9. Building Services in Fire Separations and Fire Rated Assemblies****3.1.9.1. Fire Stopping of Service Penetrations**

(1) Piping, tubing, ducts, *chimneys*, optical fibre cables, electrical wires and cables, totally enclosed *noncombustible* raceways, electrical outlet boxes and other similar *building services* that penetrate a membrane forming part of an assembly required to have a *fire-resistance rating*, or a *fire separation*, shall be

- (a) tightly fitted, or
- (b) sealed by a fire stop system that, when subjected to the fire test method in CAN4-S115-M, "Standard Method of Fire Tests of Firestop Systems", has an F rating not less than the *fire-protection rating* required for *closures* in the *fire separation*.

(2) Piping, tubing, ducts, *chimneys*, optical fibre cables, electrical wires and cables, totally enclosed *noncombustible* raceways, electrical outlet boxes and other similar *building services* that penetrate a *firewall* or a horizontal *fire separation* that is required to have a *fire-resistance rating* in conformance with Article 3.2.1.2., shall be sealed at the penetration by a fire stop system that, when subjected to the fire test method in CAN4-S115-M, "Standard Method of Fire Tests of Firestop Systems", has an FT rating not less than the *fire-resistance rating* for the *fire separation*.

**3.1.9.2. Combustibility of Service Penetrations**

(1) Except as permitted by Articles 3.1.9.3. and 3.1.9.4., pipes, ducts, electrical outlet boxes, totally enclosed raceways or other similar service equipment that penetrate an assembly required to have a *fire-resistance rating* shall be *noncombustible* unless the assembly has been tested incorporating that service equipment.

**3.1.9.3. Penetration by Wires, Cables and Outlet Boxes**

(1) Optical fibre cables and electrical wires and cables in totally enclosed *noncombustible* raceways are permitted to penetrate an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required by Article 3.1.9.2.

(2) Except as permitted by Sentence (3), totally enclosed nonmetallic raceways conforming to Article 3.1.5.19., optical fibre cables, and electrical wires and cables, single or grouped, with *combustible* insulation, jackets or sheathes that conform to the requirements of Clause 3.1.5.17.(1)(a) and that are not installed in totally enclosed *noncombustible* raceways are permitted to penetrate an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required by Article 3.1.9.2., provided the overall diameter of the single or grouped wires or cables, or the raceways is not more than 25 mm.

(3) Single conductor metal sheathed cables with *combustible* jacketing that are more than 25 mm in overall diameter are permitted to penetrate a *fire separation* required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required by Article 3.1.9.2., provided the cables are not grouped.

(4) *Combustible* totally enclosed raceways which are embedded in a concrete floor slab are permitted in an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required by Article 3.1.9.2., provided the concrete cover between the raceway and the bottom of the slab is not less than 50 mm.

(5) *Combustible* outlet boxes are permitted in an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required by Article 3.1.9.2., provided the opening through the membrane into the box is not more than 0.016 m<sup>2</sup>.

(6) Outlet boxes that penetrate opposite sides of a wall assembly shall be offset where necessary to maintain the integrity of the *fire separation*.

**3.1.9.4. Combustible Piping Penetrations**

(1) *Combustible* sprinkler piping is permitted to penetrate a *fire separation* provided the *fire compartments* on each side of the *fire separation* are sprinklered.

(2) Reserved

(3) Except as permitted by Sentences (4) to (8), *combustible* piping shall not be used if any part of that system penetrates

- (a) a *fire separation* required to have a *fire-resistance rating*, or
- (b) a membrane that forms part of an assembly required to have a *fire-resistance rating*.

(4) *Combustible* piping is permitted to penetrate a *fire separation* required to have a *fire-resistance rating* or a membrane that forms part of an assembly required to have a *fire-resistance rating*, provided

- (a) the piping is sealed at the penetration by a fire stop system that has an F rating not less than the *fire-resistance rating* required for the *fire separation* when subjected to the fire test method in CAN4-S115-M, "Standard Method of Fire Tests of Firestop Systems", with a pressure differential of 50 Pa between the exposed and unexposed sides, with the higher pressure on the exposed side, and
- (b) the piping is not located in a vertical shaft.

(5) *Combustible* drain piping is permitted to penetrate a horizontal *fire separation* provided it leads directly from a *noncombustible* water closet through a concrete floor slab.

(6) *Combustible* piping is permitted on one side of a vertical *fire separation* provided it is not located in a vertical shaft.

(7) *Combustible* piping is permitted to penetrate a vertical or horizontal *fire separation* provided the *fire compartments* on each side of the *fire separation* are sprinklered.

(8) *Combustible* piping not more than 25 mm in diameter containing chlorine gas is permitted to penetrate a *fire separation* between a chlorine gas *service room* built in conjunction with a *public pool*, and the remainder of the *building*.



### 3.1.9.5. Openings through a Membrane Ceiling

(1) A membrane ceiling forming part of an assembly assigned a *fire-resistance rating* on the basis of the Supplementary Guidelines is permitted to be penetrated by openings leading into ducts within the ceiling space provided

- (a) the ducts are sheet steel, and
- (b) the amount of openings and their protection conform to the requirements of the Supplementary Guidelines.

(2) Fire stop flaps in ceiling membranes required in Sentence (1) shall conform to CAN4-S112.2-M, "Standard Method of Fire Test of Ceiling Firestop Flap Assemblies".

### 3.1.9.6. Plenums

(1) A ceiling assembly used as a *plenum* shall conform to Article 3.6.4.3.

### 3.1.10. Firewalls

#### 3.1.10.1. Prevention of Firewall Collapse

(1) Except as permitted by Sentence (2), the connections and supports for structural framing members that are connected to or supported on a *firewall* and have a *fire-resistance rating* less than that required for the *firewall*, shall be designed so that the collapse of the framing members during a fire will not cause the collapse of the *firewall*.

(2) Sentence (1) does not apply to a *firewall* consisting of two separate wall assemblies each tied to its respective *building* frame but not to each other, provided each wall assembly is

- (a) a *fire separation* having one half of the *fire-resistance rating* required for the *firewall* by Sentences 3.1.10.2.(1) and (2), and
- (b) designed so that the collapse of one wall assembly will not cause collapse of the other.

(3) A *firewall* is permitted to be supported on the structural frame of a *building* of *noncombustible construction* provided the supporting frame has a *fire-resistance rating* not less than that required for the *firewall*.

(4) Piping, ducts and totally enclosed *noncombustible* raceways shall be installed so that their collapse will not cause collapse of the *firewall*.

#### 3.1.10.2. Rating of Firewalls

(1) A *firewall* which separates a *building* or *buildings* with *floor areas* containing a Group E or a Group F, Division 1 or 2 *major occupancy* shall be constructed as a *fire separation* of *noncombustible construction* having a *fire-resistance rating* not less than 4 h, except that where the upper portion of a *firewall* separates *floor areas* containing other than Group E or Group F, Division 1 or 2 *major occupancies*, the *fire-resistance rating* of the upper portion of the *firewall* is permitted to be not less than 2 h.

(2) A *firewall* which separates a *building* or *buildings* with *floor areas* containing *major occupancies* other than Group E or Group F, Division 1 or 2 shall be constructed as a *fire separation* of *noncombustible construction* having a *fire-resistance rating* not less than 2 h.

(3) Except for *closures*, the required *fire-resistance rating* of a *firewall* shall be provided by masonry or concrete.

#### 3.1.10.3. Continuity of Firewalls

(1) A *firewall* shall extend from the ground continuously through, or adjacent to, all *storeys* of a *building* or *buildings* so separated, except that a *firewall* located above a *basement storage garage* conforming to Article 3.2.1.2. is permitted to commence at the floor assembly immediately above the *storage garage*.

(2) A *firewall* is permitted to terminate on the underside of a reinforced concrete roof slab provided

- (a) the roof slab on both sides of the *firewall* has a *fire-resistance rating* not less than
  - (i) 1 h if the *firewall* is required to have a *fire-resistance rating* not less than 2 h, or
  - (ii) 2 h if the *firewall* is required to have a *fire-resistance rating* not less than 4 h, and
- (b) there are no concealed spaces within the roof slab in that portion immediately above the *firewall*.

#### 3.1.10.4. Parapets

(1) Except as permitted by Sentences (2) and 3.1.10.3.(2), a *firewall* shall extend above the roof surface to form a parapet not less than

- (a) 150 mm high for a *firewall* required to have a *fire-resistance rating* not less than 2 h, and
- (b) 900 mm high for a *firewall* required to have a *fire-resistance rating* not less than 4 h.

(2) A *firewall* that separates 2 *buildings* with roofs at different elevations need not extend above the upper roof surface to form a parapet, provided the difference in elevation between the roofs is more than 3 m.

#### 3.1.10.5. Maximum Openings

(1) Openings in a *firewall* shall conform to the size limits described in Article 3.1.8.6. and the aggregate width of openings shall be not more than 25% of the entire length of the *firewall*.

#### 3.1.10.6. Exposure Protection for Adjacent Walls

(1) The requirements of Article 3.2.3.13. shall apply to the external walls of 2 *buildings* that meet at a *firewall* at an angle less than 135°.

#### 3.1.10.7. Combustible Projections

(1) *Combustible* material shall not extend across the end of a *firewall* but is permitted to extend across a roof above a *firewall* that is terminated in conformance with Sentence 3.1.10.3.(2).

(2) If *buildings* are separated by a *firewall*, *combustible* projections on the exterior of one *building*, including balconies, platforms, *canopies*, eave projections and stairs, that extend outward beyond the end of the *firewall*, shall not be permitted within 2 400 mm of *combustible* projections and window or door openings of the adjacent *building*.

#### 3.1.11. Fire Stops in Concealed Spaces

##### 3.1.11.1. Separation of Concealed Spaces

(1) Concealed spaces in interior wall, ceiling and crawl spaces shall be separated from concealed spaces in exterior walls and *attic* or *roof spaces* by fire stops conforming to Article 3.1.11.7.

**3.1.11.2. Fire Stopping in Wall Assemblies**

(1) Except as permitted by Sentence (2), fire stops conforming to Article 3.1.11.7. shall be provided to block off concealed spaces within a wall assembly

- (a) at every floor level,
- (b) at every ceiling level where the ceiling forms part of an assembly required to have a *fire-resistance rating*, and
- (c) so that the maximum horizontal dimension is not more than 20 m and the maximum vertical dimension is not more than 3 m.

(2) Fire stops conforming to Sentence (1) are not required provided

- (a) the wall space is filled with insulation,
- (b) the exposed construction materials and any insulation within the wall space are *noncombustible*,
- (c) the exposed construction materials and any insulation within the wall space have a *flame-spread rating* not more than 25 on any exposed surface, or on any surface that would be exposed by cutting through the material in any direction, and fire stops are installed so that the vertical distance between them is not more than 10 m, or
- (d) the insulated wall assembly contains not more than one concealed air space, and the horizontal thickness of that air space is not more than 25 mm.

**3.1.11.3. Fire Stopping between Nailing and Supporting Elements**

(1) In a *building* required to be of *noncombustible construction*, a concealed space in which there is an exposed ceiling finish with a *flame-spread rating* more than 25, shall be provided with fire stops conforming to Article 3.1.11.7. between wood nailing elements, so that the maximum area of the concealed space is not more than 2 m<sup>2</sup>.

(2) In a *building* required to be of *noncombustible construction*, fire stops conforming to Article 3.1.11.7. shall be provided in the concealed spaces created by the wood members permitted by Sentence 3.1.5.8.(2) so that the maximum area of a concealed space is not more than 10 m<sup>2</sup>.

**3.1.11.4. Fire Stopping between Vertical and Horizontal Spaces**

(1) Fire stops conforming to Article 3.1.11.7. shall be provided

- (a) at all interconnections between concealed vertical and horizontal spaces in interior coved ceilings, drop ceilings and soffits in which the exposed construction materials within the space have a *flame-spread rating* more than 25, and
- (b) at the end of each run and at each floor level in concealed spaces between stair stringers in which the exposed construction materials within the space have a *flame-spread rating* more than 25.

**3.1.11.5. Fire Stopping of Roof Spaces, Balconies and Canopies**

(1) A concealed space within a ceiling or roof assembly of *combustible construction*, including an *attic* or *roof space*, in which sprinklers are not installed, shall be separated by construction conforming to Article 3.1.11.7. into compartments not more than

- (a) 600 m<sup>2</sup> in area with no dimension more than 60 m if the exposed construction materials within the space have a *flame-spread rating* not more than 25, and

- (b) 300 m<sup>2</sup> in area with no dimension more than 20 m if the exposed construction materials within the space have a *flame-spread rating* more than 25.

(2) A concealed space in an exterior cornice, a mansard style roof, a balcony or a *canopy* in which exposed construction materials within the space have a *flame-spread rating* more than 25, shall be separated by construction conforming to Article 3.1.11.7.

- (a) at locations where the concealed space extends across the ends of required vertical *fire separations*, and
- (b) so that the maximum dimension in the concealed space is not more than 20 m.

**3.1.11.6. Fire Stopping of Crawl Spaces**

(1) A crawl space which is not considered as a *basement* by Article 3.2.2.9. and in which sprinklers are not installed, shall be separated by construction conforming to Article 3.1.11.7. into compartments not more than 600 m<sup>2</sup> in area with no dimension more than 30 m.

**3.1.11.7. Fire Stop Materials**

(1) Except as permitted by Sentences (2) to (4), materials used to separate concealed spaces into compartments shall remain in place and prevent the passage of flames for not less than 15 min when subjected to the standard fire exposure in CAN/ULC-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials".

(2) Gypsum board not less than 12.7 mm thick and sheet steel not less than 0.38 mm thick need not be tested in conformance with Sentence (1) provided all joints have continuous support.

(3) In a *building* required to be of *noncombustible construction*, wood nailing elements described in Article 3.1.5.6. need not be tested in conformance with Sentence (1).

(4) In a *building* permitted to be of *combustible construction*, in a *combustible* roof system permitted by Sentence 3.1.5.3.(2), and in a raised platform permitted by Sentence 3.1.5.8.(2), materials used to separate concealed spaces into compartments are permitted to be

- (a) solid lumber not less than 38 mm thick,
- (b) phenolic bonded plywood, waferboard, or strandboard not less than 12.5 mm thick with joints supported, or
- (c) two thicknesses of lumber, each not less than 19 mm thick with joints staggered, where the width or height of the concealed space requires more than one piece of lumber not less than 38 mm thick to block off the space.

(5) Openings through materials referred to in Sentences (1) to (4) shall be protected to maintain the integrity of the construction.

(6) Where materials referred to in Sentences (1) to (4) are penetrated by construction elements or by service equipment, fire stop materials shall be used to seal the penetration.



**3.1.12. Flame-Spread Rating and Smoke Developed Classification****3.1.12.1. Determination of Ratings**

(1) Except as required by Sentence (2) and as permitted by Sentence (3), the *flame-spread rating* and smoke developed classification of a material, assembly, or structural member shall be determined on the basis of not less than three tests conducted in conformance with CAN/ULC-S102-M, "Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies".

(2) The *flame-spread rating* and smoke developed classification of a material or assembly shall be determined on the basis of not less than three tests conducted in conformance with CAN/ULC-S102.2-M, "Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies", if the material or assembly

- (a) is designed for use in a relatively horizontal position with only its top surface exposed to air,
- (b) cannot be tested in conformance with Sentence (1) without the use of supporting material that is not representative of the intended installation, or
- (c) is thermoplastic.

(3) A material, assembly, or structural member is permitted to be assigned a *flame-spread rating* and smoke developed classification on the basis of the Supplementary Guidelines.

**3.1.13. Interior Finish****3.1.13.1. Interior Finish Description**

(1) Interior finish material shall include any material that forms part of the interior surface of a floor, wall, *partition* or ceiling, including

- (a) interior cladding of plaster, wood or tile,
- (b) surfacing of fabric, paint, plastic, veneer or wallpaper,
- (c) doors, windows and trim,
- (d) lighting elements such as light diffusers and lenses forming part of the finished surface of the ceiling, and
- (e) carpet material that overlies a floor that is not intended as the finished floor.

**3.1.13.2. Flame-Spread Rating**

(1) Except as otherwise required or permitted by this Subsection, the *flame-spread rating* of interior wall and ceiling finishes, including glazing and skylights, shall be not more than 150 and shall conform to Table 3.1.13.2.

**Table 3.1.13.2.****Flame-Spread Ratings**

Forming Part of Sentence 3.1.13.2.(1)

Occupancy, Location or Element	Maximum <i>Flame-Spread Rating</i> for Walls and Ceilings	
	<i>Sprinklered</i>	<i>Not Sprinklered</i>
Group A, Division 1 <i>occupancies</i> , including doors, skylights, glazing and light diffusers and lenses	150	75
Group B <i>occupancies</i>	150	NA
<i>Exits</i> <sup>(1)</sup>	25	25
Lobbies described in Sentence 3.4.4.2.(2)	25	25
Covered vehicular passageways, except for roof assemblies of <i>heavy timber construction</i> in such passageways	25	25
<i>Vertical service spaces</i>	25	25
Column 1	2	3

**Note to Table 3.1.13.2.:**

<sup>(1)</sup> See Articles 3.1.13.8. and 3.1.13.10.

(2) Except as permitted by Sentence (3), doors, other than those in Group A, Division 1 *occupancies*, need not conform to Sentence (1) provided they have a *flame-spread rating* not more than 200.

(3) Doors within a *dwelling unit* need not conform to Sentences (1) and (2).

(4) Up to 10% of the total wall area and 10% of the total ceiling area of a wall or ceiling finish that is required by Sentence (1) to have a *flame-spread rating* less than 150 is permitted to have a *flame-spread rating* not more than 150, except that up to 25% of the total wall area

of lobbies described in Sentence 3.4.4.2.(2) is permitted to have a *flame-spread rating* not more than 150.

(5) Except in the case of Group A, Division 1 *occupancies*, *combustible* doors, skylights, glazing and light diffusers and lenses shall not be considered in the calculation of wall and ceiling areas described in Sentence (4).

**3.1.13.3. Bathrooms in Residential Suites**

(1) The *flame-spread rating* of interior wall and ceiling finishes for a bathroom within a *suite of residential occupancy* shall be not more than 200.



**3.1.13.4. Light Diffusers and Lenses**

(1) The *flame-spread rating* of *combustible* light diffusers and lenses in all *occupancies* other than Group A, Division 1 is permitted to be more than the *flame-spread rating* limits required elsewhere in this Subsection, provided the light diffusers and lenses

- (a) have a *flame-spread rating* not more than 250 and a smoke developed classification not more than 600 when tested in conformance with CAN/ULC-S102.2-M, "Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Covering, and Miscellaneous Materials and Assemblies",
- (b) fall to the bottom of the test apparatus before igniting when tested in conformance with ULC-S102.3-M, "Standard Method of Fire Test of Light Diffusers and Lenses",
- (c) are not prevented from falling from the ceiling by construction located beneath the elements, and
- (d) are not used in a corridor that is required to be separated from the remainder of the *building* by a *fire separation* or in an *exit* shaft unless individual diffusers or lenses are not more than 1 m<sup>2</sup> in area and are not less than 1 200 mm apart.

**3.1.13.5. Skylights**

(1) Individual *combustible* skylights in a corridor that is required to be separated from the remainder of the *building* by a *fire separation* shall be not more than 1 m<sup>2</sup> in area and not less than 1 200 mm apart.

**3.1.13.6. Corridors**

(1) Except as permitted by Sentences (2) and (3), the *flame-spread rating* shall be not more than 75 for the interior wall finish of

- (a) a *public corridor*,
- (b) a corridor used by the public in
  - (i) an *assembly occupancy*, or

(ii) a *care or detention occupancy*,

- (c) a corridor serving classrooms, or
- (d) a corridor serving sleeping rooms in a *care or detention occupancy*.

(2) The *flame-spread rating* limit specified in Sentence (1) does not apply to corridors referred to in Sentence (1) provided the *flame-spread rating* is not more than

- (a) 25 on the upper half of the wall, and
- (b) 150 on the lower half of the wall.

(3) The *flame-spread rating* limits specified in Sentences (1) and (2) for corridors referred to in Sentence (1) does not apply to a corridor in which the *flame-spread rating* is not more than 150 provided the *floor area* is *sprinklered*.

(4) The *flame-spread rating* limits specified in Sentences (1), (2) and (3) apply to *occupancies* in the corridor as well as to the corridor itself.

(5) Except in a *floor area* that is *sprinklered* and as permitted in Sentence (6), the interior ceiling finish of corridors and *occupancies* referred to in Sentences (1) and (4) shall have a *flame-spread rating* not more than 25.

(6) The *flame-spread rating* limits specified in Sentence (5) do not apply to a corridor in which the *flame-spread rating* is not more than 150 provided the *floor area* is *sprinklered*.

**3.1.13.7. High Buildings**

(1) Except as permitted by Sentences (2) and (3), the interior wall, ceiling and floor finishes in a *building* regulated by the provisions of Subsection 3.2.6. shall conform to the *flame-spread rating* requirements in Articles 3.1.13.2. to 3.1.13.6. and to the *flame-spread rating* and smoke developed classification values in Table 3.1.13.7.

Table 3.1.13.7.

**Flame-Spread Rating and Smoke Developed Classification in a High Building**

Forming Part of Sentence 3.1.13.7.(1)

Location or Element	Maximum <i>Flame-Spread Rating</i>			Maximum Smoke Developed Classification		
	Wall Surface	Ceiling Surface <sup>(1)</sup>	Floor Surface	Wall Surface	Ceiling Surface <sup>(1)</sup>	Floor Surface
<i>Exit</i> stairways, vestibules to <i>exit</i> stairs and lobbies described in Sentence 3.4.4.2.(2)	25	25	25	50	50	50
Corridors not within <i>suites</i>	(2)	(2)	300	100	50	500
Elevator cars and vestibules	25	25	300	100	100	300
<i>Service spaces</i> and <i>service rooms</i>	25	25	25	50	50	50
Other locations and elements	(2)	(2)	No limit	300	50	No limit
Column 1	2	3	4	5	6	7

**Notes to Table 3.1.13.7:**

(1) See Sentence 3.1.13.4.(1) for lighting elements.

(2) Other requirements of this Part apply.

(2) Except for a *building* of Group B *major occupancy* and elevator cars, the *flame-spread rating* and smoke developed classification of interior wall, floor and ceiling finishes need not conform to the values in Table 3.1.13.7., provided the *building* is *sprinklered* and the sprinkler system is electrically supervised in conformance with Sentence 3.2.6.4.(1).

(3) Trim, millwork and doors in an *exit* stairway, a vestibule to an *exit* stairway, a lobby described in Sentence 3.4.4.2.(2), or a corridor not within a *suite* need not conform to the *flame-spread rating* and smoke developed classification requirements of Sentence (1) provided they have

- (a) a *flame-spread rating* not more than 150,
- (b) a smoke developed classification not more than 300, and
- (c) an aggregate area not more than 10% of the area of the wall or ceiling on which they occur.

### 3.1.13.8. Noncombustible Construction

- (1) In a *building* required to be of *noncombustible construction*
  - (a) the *flame-spread ratings* required by Subsection 3.1.5. shall apply in addition to the requirements in this Subsection, and
  - (b) the *flame-spread ratings* for *exits* in this Subsection shall also apply to any surface in the *exit* that would be exposed by cutting through the material in any direction, except that this requirement does not apply to doors, *heavy timber construction* in a *sprinklered building* and *fire-retardant treated wood*.

### 3.1.13.9. Underground Walkways

(1) Except for paint, the interior wall and ceiling finishes of an underground walkway shall be of *noncombustible materials*.

### 3.1.13.10. Exterior Exit Passageway

(1) The wall and ceiling finishes of an exterior *exit* passageway that provides the only *means of egress* from the rooms or *suites* it serves, including the soffit beneath and the *guard* on the passageway, shall have a *flame-spread rating* not more than 25, except that a *flame-spread rating* not more than 150 is permitted for up to 10% of the total wall area and for up to 10% of the total ceiling area.

### 3.1.14. Roof Assemblies

#### 3.1.14.1. Fire-Retardant Treated Wood Roof Systems

(1) If a *fire-retardant treated wood* roof system is used to comply with the requirements of Subsection 3.2.2., the roof deck assembly shall meet the conditions of acceptance of CAN/ULC-S126-M, "Standard Method of Test for Fire Spread Under Roof-Deck Assemblies".

(2) Supports for the roof deck assembly referred to in Sentence (1) shall consist of

- (a) *fire-retardant treated wood*,
- (b) *heavy timber construction*,
- (c) *noncombustible construction*, or
- (d) a combination thereof.

#### 3.1.14.2. Metal Roof Deck Assemblies

(1) Except as permitted by Sentence (2), a metal roof deck assembly shall meet the conditions of acceptance of CAN/ULC-S126-M, "Standard Method of Test for Fire Spread Under Roof-Deck Assemblies", if

- (a) it supports a *combustible* material above the deck that could propagate a fire beneath the roof deck assembly, and
- (b) the deck is used to comply with the requirements of Sentences 3.2.2.25.(2), 3.2.2.32.(2), 3.2.2.53.(2), 3.2.2.59.(2), 3.2.2.69.(2) and 3.2.2.76.(2) for *noncombustible construction*.

(2) The requirements of Sentence (1) are waived provided

- (a) the *combustible* material above the roof deck is protected by not less than 12.7 mm thick gypsum board, mechanically fastened to a supporting assembly if located beneath the roof deck, or by a thermal barrier conforming to one of Clauses 3.1.5.11.(2)(c) to (e) that is located
  - (i) on the underside of the *combustible* material, or
  - (ii) beneath the roof deck,
- (b) the *building* is *sprinklered*, or
- (c) the roof assembly has a *fire-resistance rating* not less than 45 min.

### 3.1.15. Roof Covering

#### 3.1.15.1. Roof Covering Classification

(1) A roof covering classification shall be determined in conformance with CAN/ULC-S107-M, "Standard Methods of Fire Tests of Roof Coverings".

#### 3.1.15.2. Roof Coverings

(1) Except as permitted by Sentence (2), every roof covering shall have a Class A, B or C classification as determined in accordance with Article 3.1.15.1.

(2) A roof covering is not required to have a Class A, B or C classification for

- (a) a tent,
- (b) an *air-supported structure*, or
- (c) a *building* of Group A, Division 2 *occupancy* not more than 2 storeys in *building height* and not more than 1 000 m<sup>2</sup> in *building area* provided the roof covering is underlaid with *noncombustible* material.

### 3.1.16. Occupant Load

#### 3.1.16.1. Occupant Load Determination

(1) The *occupant load* of a *floor area* or part of a *floor area*, or of a *building* or part of a *building* not having a *floor area*, shall be based on

- (a) the number of seats in an *assembly occupancy* having fixed seats,
- (b) 2 persons per sleeping room or sleeping area in a *dwelling unit* or *suite*, or
- (c) the number of persons

- (i) for which the area is designed, or
- (ii) determined from Table 3.1.16.1. for *occupancies* other than those described in Clauses (a) and (b).

**Table 3.1.16.1.****Occupant Load**

Forming Part of Article 3.1.16.1.

Type of Use of <i>Building</i> or <i>Floor Area</i> or Part Thereof	Area per Person, m <sup>2</sup>
<b>Assembly uses</b>	
space with fixed seats	See Clause (1)(a)
space with nonfixed seats	0.75
<i>stages</i> for theatrical performances	0.75
space with nonfixed seats and tables	0.95
standing space	0.40
stadia and grandstands	0.60
bowling alleys, pool and billiard rooms	9.30
classrooms	1.85
school shops and vocational rooms	9.30
reading or writing rooms or lounges	1.85
dining, alcoholic beverage and cafeteria space	1.10
laboratories in schools	4.60
exhibition halls other than those classified in Group E	2.80
<b>Care or detention uses</b>	
B-1 : detention quarters	11.60
B-2 : treatment and sleeping room areas	10.00
B-3 : sleeping room areas (See also Article 3.7.1.3.)	10.00
<b>Residential uses</b>	
<i>dwelling units</i>	See Clause (1)(b)
dormitories	4.60
<b>Business and personal services uses</b>	
personal service shops	4.60
offices	9.30
<b>Mercantile uses</b>	
<i>basements</i> and <i>first storeys</i>	3.70
second <i>storeys</i> having a principal entrance from a pedestrian thoroughfare or a parking area	3.70
dining, alcoholic beverage and cafeteria space	1.10
other <i>storeys</i>	5.60
<b>Industrial uses</b>	
manufacturing or process rooms	4.60
<i>storage garages</i>	46.00
storage spaces (warehouse)	28.00
aircraft hangars	46.00
<b>Other uses</b>	
cleaning and repair of goods	4.60
kitchens	9.30
storage	46.00
<i>public corridors</i> intended for <i>occupancies</i> in addition to pedestrian travel	3.70
Column 1	2

(2) If a *floor area* or part thereof has been designed for an *occupant load* other than that determined from Table 3.1.16.1., a permanent sign indicating that *occupant load* shall be posted in a conspicuous location.

(3) For the purposes of this Article, *mezzanines*, tiers and balconies shall be regarded as part of the *floor area*.

(4) If a room or group of rooms is intended for different *occupancies* at different times, the value to be used from Table 3.1.16.1. shall be the value which gives the greatest number of persons for the *occupancies* concerned.

(5) Except as provided by Sentences (6) or (7), in dining, alcoholic beverage and cafeteria spaces the *occupant load* shall be determined from Table 3.1.16.1.

(6) The *occupant load* in Sentence (6) is permitted to be the number of persons for which the space is designed.

(7) The *occupant load* in Sentence (6) shall be not more than that determined by using an area of 0.6 m<sup>2</sup> per person.

**3.1.16.2. Dance Floor**

(1) The *occupant load* of a room in which a dance floor is situated shall be calculated in respect of that portion of the room that is not occupied by the dance floor.

**3.1.16.3. Public Pools**

(1) The *occupant load* of a *public pool*, except a *wave action pool*, shall be determined by the following formula:

$$\text{occupant load} = \frac{D}{2.5} + \frac{S}{1.4}$$

where D = the water surface area in square metres of the part of the pool that is deeper than 1 350 mm; and

where S = the water surface area in square metres of the part of the pool that is 1 350 mm in depth or less.

(2) The *occupant load* of a *wave action pool* shall be determined by the following formula:

$$\text{occupant load} = \frac{D}{2.5} + \frac{S}{1.1}$$

where D = the water surface area in square metres of the part of the pool where the still water depth is greater than 1 000 mm; and

where S = the water surface area in square metres of the part of the pool where the still water depth is 1 000 mm or less.

**3.1.17. Drainage and Grades****3.1.17.1. Drainage**

(1) The *building* shall be located and the *building* site graded so that water will not accumulate at or near the *building* and will not adversely affect any adjacent properties.

**3.1.18. Above Ground Electrical Conductors****3.1.18.1. Clearance to Buildings**

(1) Where a *building* is to be *constructed* in proximity to existing above ground electrical conductors of a voltage not less than 2.5 kV and not more than 46 kV

(a) the *building* shall not be located beneath the conductors, and

(b) the horizontal distance between the *building* and the conductors shall be not less than 3 m.

(2) Where a *building* is to be *constructed* in proximity to existing above ground electrical conductors of a voltage more than 46 kV, the clearances between the *building* and the conductors shall conform to the requirements of CAN/CSA-C22.3 No.1, "Overhead Systems".



**3.1.18.2. Exception**

(1) Article 3.1.18.1. does not apply to *buildings* containing electrical equipment and electrical installations used exclusively in the generation, transformation or transmission of electrical power or energy intended for sale or distribution to the public.

**Section 3.2. Building Fire Safety****3.2.1. General****3.2.1.1. Exceptions in Determining Building Height**

(1) A roof-top enclosure provided for elevator machinery, a stairway or a *service room* used for no purpose other than for service to the *building*, shall not be considered as a *storey* in calculating the *building height*.

(2) Space under tiers of seats in a *building* of the arena type shall not be considered as adding to the *building height* provided the space is used only for dressing rooms, concession stands and similar purposes incidental to the *major occupancy* of the *building*.

(3) Except as required in Sentence (4), (5) and (8), a *mezzanine* shall not be considered as a *storey* in calculating the *building height* provided

(a) the aggregate area of the *mezzanine* floor is not more than 40% of the area of the room or *storey* in which it is located,

(b) it is used as an open *floor area* except as permitted by Sentence 3.3.2.11.(2), and

(c) the space above the *mezzanine* floor has no visual obstructions more than 1 070 mm above the floor.

(4) Except as required by Sentence (5), a *mezzanine* shall not be considered as a *storey* in calculating *building height* and need not conform to Sentence (3) provided the aggregate area of the *mezzanine* floor is not more than 10% of the area of

(a) the *suite* in which it is located, where there is more than one *suite* in the *storey*, or

(b) the *storey* in which it is located, in all other cases.

(5) Except as permitted by Sentence (8), if one or more levels of *mezzanine* is partially or wholly superimposed above another *mezzanine* in the room or *storey*, each level additional to the first level shall be considered as a *storey* in calculating the *building height*.

(6) The floor assembly of a *mezzanine* that is required to be considered as a *storey* in determining *building height*, shall be constructed in conformance with the *fire separation* requirements of Articles 3.2.2.20. to 3.2.2.83. for floor assemblies.

(7) A *service space* in which facilities are included to permit a person to enter and to undertake maintenance and other operations pertaining to *building services* from within the *service space* need not be considered a *storey* if it conforms to Articles 3.2.5.15. and 3.3.1.23., and Sentences 3.2.4.19.(12), 3.2.7.3.(2), 3.3.1.3.(7), 3.4.2.4.(3) and 3.4.4.4.(9).

(8) *Mezzanines*, elevated walkways and platforms in Group F, Division 2 or 3 *major occupancies* need not be considered as *storeys* in calculating *building height* provided

(a) the *building* is of *noncombustible construction*,

(b) except for Clause (c), the *mezzanines*, elevated walkways and platforms are intended solely for periodic service and maintenance, and

(c) where they are intended to be occupied, no *mezzanine*, elevated walkway or platform shall have an *occupant load* more than 4 persons.

**3.2.1.2. Storage Garage Considered as a Separate Building**

(1) A *basement* used primarily as a *storage garage* is permitted to be considered as a separate *building* for the purposes of Subsection 3.2.2., provided the floor and roof assemblies above the *basement* and the exterior walls of the *basement* above the adjoining ground level are constructed as *fire separations* of masonry or concrete having a *fire-resistance rating* not less than 2 h, except as permitted by Sentence (2).

(2) The exterior wall of a *basement* that is required to be a *fire separation* with a *fire-resistance rating* in accordance with Sentence (1) is permitted to be penetrated by openings that are not protected by *closures* provided

(a) the *storage garage* is *sprinklered*,

(b) every opening in the exterior wall is separated from *storeys* above the opening by a projection of the floor or roof assembly above the *basement*, extending not less than

(i) 1 000 mm beyond the exterior face of the *storage garage* if the upper *storeys* are required to be of *noncombustible construction*, or

(ii) 2 000 mm beyond the exterior face of the *storage garage* if the upper *storeys* are permitted to be of *combustible construction*, or

(c) the exterior walls of any *storeys* located above the floor or roof assembly referred to in Sentence (1) are recessed behind the outer edge of the assembly by not less than

(i) 1 000 mm if the upper *storeys* are required to be of *noncombustible construction*, or

(ii) 2 000 mm if the upper *storeys* are permitted to be of *combustible construction*.

(3) The floor or roof assembly projection referred to in Clause (2)(b) shall have a *fire-resistance rating* not less than 2 h and shall have no openings within the projection.

**3.2.1.3. Roof Considered as a Wall**

(1) For the purposes of this Section any part of a roof that is pitched at an angle of 60° or more to the horizontal and is adjacent to a space intended for *occupancy* within a *building* shall be considered as part of an exterior wall of the *building*.

**3.2.1.4. Floor Assembly over Basement**

(1) Except as permitted by Sentences 3.2.2.42.(3), 3.2.2.43.(3), 3.2.2.45.(3), 3.2.2.46.(3), 3.2.2.47.(3) or 3.2.2.48.(3), a floor assembly immediately above a *basement* shall be constructed as a *fire separation* having a *fire-resistance rating* conforming to the requirements of Articles 3.2.2.20. to 3.2.2.83. for a floor assembly, but not less than 45 min.

(2) All *loadbearing* walls, columns and arches supporting a floor assembly immediately above a *basement* shall have a *fire-resistance rating* not less than that required by Sentence (1) for the floor assembly.

**3.2.1.5. Fire Containment in Basements**

(1) Except as permitted by Sentences (2) and 3.2.2.15.(3), in a *building* in which an automatic sprinkler system is not required to be installed by Articles 3.2.2.20. to 3.2.2.83., every *basement* shall

- (a) be *sprinklered*, or
- (b) be subdivided into *fire compartments* not more than 600 m<sup>2</sup> in area by a *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly immediately above the *basement*.

(2) An *open-air storey* need not conform to Sentence (1).

**3.2.2. Building Size and Construction Relative to Occupancy****3.2.2.1. Application**

(1) Except as permitted by Article 3.2.2.3., a *building* shall be constructed in conformance with this Subsection to prevent fire spread and collapse caused by the effects of fire.

**3.2.2.2. Special and Unusual Structures**

(1) A structure which cannot be identified with the characteristics of a *building* in Articles 3.2.2.20. to 3.2.2.83. shall be protected against fire spread and collapse in conformance with good fire protection engineering practice.

**3.2.2.3. Exceptions to Structural Fire Protection**

- (1) Fire protection is not required for
  - (a) steel lintels above openings not more than 2 m wide in *loadbearing* walls and not more than 3 m wide in *non-loadbearing* walls,
  - (b) steel lintels above openings more than 2 m wide in *loadbearing* walls and more than 3 m wide in *non-loadbearing* walls provided the lintels are supported at intervals of not more than 2 m by structural members with the required *fire-resistance rating*,
  - (c) the bottom flanges of shelf angles and plates that are not a part of the structural frame,
  - (d) steel members for framework around elevator hoistway doorways, steel for the support of elevator and dumbwaiter guides, counterweights and other similar equipment, that are entirely enclosed in a hoistway and are not a part of the structural frame of the *building*,
  - (e) steel members of stairways and escalators that are not a part of the structural frame of a *building*,
  - (f) steel members of porches, exterior balconies, exterior stairways, fire escapes, cornices, *marqueses* and other similar appurtenances, provided they are outside an exterior wall of a *building*, and
  - (g) *loadbearing* steel or concrete members wholly or partly outside a *building* face in a *building* not more than 4 *storeys* in *building height* and classified as Group A, B, C, D or F, Division 3 *major occupancy* provided the members are
    - (i) not less than 1 000 mm away from any *unprotected opening* in an exterior wall, or

- (ii) shielded from heat radiation in the event of a fire within the *building* by construction that will provide the same degree of protection that would be necessary if the member was located inside the *building*, with the protection extending on either side of the member a distance equal to the projection of the member from the face of the wall.

**3.2.2.4. Buildings with Multiple Major Occupancies**

(1) The requirements restricting fire spread and collapse for a *building* of a single *major occupancy* classification are provided in this Subsection according to its *building height* and *building area*.

(2) If a *building* contains more than one *major occupancy*, classified in more than one Group or Division, the requirements of this Subsection concerning *building* size and construction relative to *major occupancy* shall apply according to Articles 3.2.2.5. to 3.2.2.8.

**3.2.2.5. Applicable Building Height and Area**

(1) In determining the fire safety requirements of a *building* in relation to each of the *major occupancies* contained therein, the *building height* and *building area* of the entire *building* shall be used.

**3.2.2.6. Multiple Major Occupancies**

(1) Except as permitted by Articles 3.2.2.7. and 3.2.2.8., in a *building* containing more than one *major occupancy*, the requirements of this Subsection for the most restricted *major occupancy* contained shall apply to the whole *building*.

**3.2.2.7. Superimposed Major Occupancies**

(1) Except as permitted by Article 3.2.2.8., in a *building* in which one *major occupancy* is located entirely above another *major occupancy*, the requirements in this Subsection for each portion of the *building* containing a *major occupancy* shall apply to that portion as if the entire *building* was of that *major occupancy*.

(2) If one *major occupancy* is located above another *major occupancy*, the *fire-resistance rating* of the floor assembly between the *major occupancies* shall be determined on the basis of the requirements of this Subsection for the lower *major occupancy*.

**3.2.2.8. Exceptions for Major Occupancies**

(1) In a *building* in which the aggregate area of all *major occupancies* in a particular Group or Division is not more than 10% of the *floor area* of the *storey* in which they are located, these *major occupancies* need not be considered as *major occupancies* for the purposes of this Subsection, provided they are not classified as Group F, Division 1 or 2 *occupancies*.

(2) A helicopter landing area on the roof of a *building* need not be considered a *major occupancy* for purposes of Subsection 3.2.2. where such landing area is not more than 10% of the area of the roof.

**3.2.2.9. Crawl Spaces**

(1) For the purposes of Articles 3.2.1.4. and 3.2.1.5., a crawl space shall be considered as a *basement* if it is

- (a) more than 1.800 mm high between the lowest part of the floor assembly and the ground or other surface below,
- (b) used for any *occupancy*,
- (c) used for the passage of *flue pipes*, or
- (d) used as a *plenum* in *combustible construction*.



(2) A floor assembly immediately above a crawl space is not required to be constructed as a *fire separation* and is not required to have a *fire-resistance rating* provided the crawl space is not required to be considered as a *basement* by Sentence (1).

### 3.2.2.10. Streets

(1) Every *building* shall face a *street* located in conformance with the requirements of Articles 3.2.5.5. and 3.2.5.6. for access routes.

(2) For the purposes of Subsections 3.2.2. and 3.2.5. an access route conforming to Subsection 3.2.5. is permitted to be considered as a *street*.

(3) A *building* is considered to face 2 *streets* provided not less than 50% of the *building* perimeter is located within 15 m of the *street* or *streets*.

(4) A *building* is considered to face 3 *streets* provided not less than 75% of the *building* perimeter is located within 15 m of the *street* or *streets*.

(5) Enclosed spaces, tunnels, bridges and similar structures, even though used for vehicular or pedestrian traffic, are not considered as *streets* for the purpose of this Part.

### 3.2.2.11. Exterior Balconies

(1) An exterior balcony shall be constructed in accordance with the type of construction required by Articles 3.2.2.20. to 3.2.2.83., as applicable to the *occupancy* classification of the *building*.

### 3.2.2.12. Exterior Passageways

(1) An elevated exterior passageway used as part of a *means of egress* shall conform to the requirements of Articles 3.2.2.20. to 3.2.2.83. for *mezzanines*.

### 3.2.2.13. Occupancy on Roof

(1) A portion of a roof that supports an *occupancy* shall be constructed in conformance with the *fire separation* requirements of Articles 3.2.2.20. to 3.2.2.83. for floor assemblies.

### 3.2.2.14. Roof-Top Enclosures

(1) A roof-top enclosure for elevator machinery or for a *service room* shall be constructed in accordance with the type of construction required by Articles 3.2.2.20. to 3.2.2.83.

(2) A roof-top enclosure for elevator machinery or for a *service room*, not more than one *storey* high, is not required to have a *fire-resistance rating*.

(3) A roof-top enclosure for a stairway shall be constructed in accordance with the type of construction required by Articles 3.2.2.20. to 3.2.2.83.

(4) A roof-top enclosure for a stairway need not have a *fire-resistance rating* nor be constructed as a *fire separation*.

### 3.2.2.15. Storeys below Ground

(1) If a *building* is erected entirely below the adjoining finished ground level and does not extend more than one *storey* below that ground level, the minimum precautions against fire spread and collapse shall be the same as are required for *basements* under a building of 1 *storey* in *building height* having the same *occupancy* and *building area*.

(2) If any portion of a *building* is erected entirely below the adjoining finished ground level and extends more than one *storey* below that ground level, the following minimum precautions against fire spread and collapse shall be taken:

- (a) except as permitted by Sentence (3), the *basements* shall be *sprinklered*,
- (b) a floor assembly below the ground level shall be constructed as a *fire separation* with a *fire-resistance rating* not less than
  - (i) 3 h if the basements are intended for use as Group E or Group F, Division 1 or 2 *occupancies*, or
  - (ii) 2 h if the basements are not intended for use as Group E or Group F, Division 1 or 2 *occupancies*, and
- (c) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the construction that they support.

(3) If the *first storey* of a *building* is not required to be *sprinklered*, sprinklers are not required in the *storey* immediately below the *first storey* provided the *storey* below

(a) contains only *residential occupancies*, and

(b) has at least one unobstructed access opening conforming to Sentence 3.2.5.1.(2) installed on that *storey* for each 15 m of wall length in at least one wall required by this Subsection to face a *street*.

### 3.2.2.16. Heavy Timber Roof Permitted

(1) Unless otherwise permitted by Articles 3.2.2.20. to 3.2.2.83., a roof assembly in a building up to 2 *storeys* in *building height* is permitted to be of *heavy timber construction* regardless of *building area* or type of construction required, provided the *building* is *sprinklered*.

(2) If Sentence (1) permits a roof assembly to be of *heavy timber construction*, structural members in the *storey* immediately below the roof assembly are permitted to be of *heavy timber construction*.

### 3.2.2.17. Sprinklers in Lieu of Roof Rating

(1) The requirements in Articles 3.2.2.20. to 3.2.2.83. for roof assemblies to have a *fire-resistance rating* are permitted to be waived provided

- (a) the *building* is *sprinklered*,
- (b) the sprinkler system in Clause (a) is electrically supervised in conformance with Sentence 3.2.4.9.(2), and
- (c) the operation of the sprinkler system in Clause (a) will cause a signal to be transmitted to the fire department in conformance with Sentence 3.2.4.7.(4).

### 3.2.2.18. Automatic Sprinkler System Required

(1) If an automatic sprinkler system is required by Articles 3.2.2.20. to 3.2.2.83., the system shall conform to the requirements of Articles 3.2.4.7., 3.2.4.8., 3.2.4.9. 3.2.5.13.

### 3.2.2.19. Buildings Containing Impeded Egress Zones

(1) A *building* containing an *impeded egress zone* and conforming to the appropriate requirements of Articles 3.2.2.20. to 3.2.2.83. is not



required to conform to the requirements of Articles 3.2.2.36. and 3.2.2.37. for a Group B, Division 1 *major occupancy* provided

- (a) the *building* is *sprinklered*,
- (b) it is not more than 1 *storey* in *building height*,
- (c) it does not include
  - (i) a *contained use area*,
  - (ii) sleeping accommodation,
  - (iii) a *high hazard industrial occupancy*, or
  - (iv) a *mercantile occupancy*,
- (d) the *building area* is not more than 6 400 m<sup>2</sup> if the building includes a *medium hazard industrial occupancy*,
- (e) the *impeded egress zone* does not extend beyond the boundaries of the *fire compartment* in which it is located, and
- (f) the *occupant load* of the *impeded egress zone* is not more than 100.

### 3.2.2.20. Group A, Division 1, Any Height, Any Area, Sprinklered

(1) Except as permitted by Articles 3.2.2.21. and 3.2.2.22., a *building* classified as Group A, Division 1 shall conform to Sentence (2).

(2) Except as permitted by Article 3.2.2.16., the *building* referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* shall be *sprinklered*,
- (b) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 2 h,
- (c) *mezzanines* shall have a *fire-resistance rating* not less than 1 h, and
- (d) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.21. Group A, Division 1, One Storey, Limited Area

(1) A *building* classified as Group A, Division 1 is permitted to conform to Sentence (2) provided

- (a) it is not more than 1 *storey* in *building height*,
- (b) it has less than 40% of the area of the *building* as 2 *storeys* for the purpose of
  - (i) development of productions including preparation of scenery and costumes and rehearsal of performers,
  - (ii) organization of performers, scenery and sound equipment,
  - (iii) preparation by performers for a performance,
  - (iv) managerial functions, or
  - (v) toilets, rest rooms and similar public facilities,

(c) it has no *occupancy* above or below the auditorium other than one which serves it or is dependent on it,

(d) it is not more than 600 m<sup>2</sup> in *building area*, and

(e) the *occupant load* is not more than 600.

(2) The *building* referred to in Sentence (1) is permitted to be of *heavy timber construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations*,
  - (i) with a *fire-resistance rating* not less than 45 min, or
  - (ii) of *heavy timber construction*, and
- (b) *loadbearing* walls, columns and arches shall
  - (i) have a *fire-resistance rating* not less than that required for the supported assembly, or
  - (ii) be of *heavy timber construction*.

### 3.2.2.22. Group A, Division 1, One Storey

(1) A *building* classified as Group A, Division 1 is permitted to conform to Sentence (2) provided

- (a) it is not more than 1 *storey* in *building height*,
- (b) no part of an auditorium floor is more than 5 m above or below *grade*,
- (c) no *occupancy* is above or below the auditorium other than one which serves it or is dependent on it, and
- (d) the *occupant load* of the auditorium floor is not more than 300.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min,
- (c) roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min, and
- (d) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*, and
- (e) *loadbearing* walls, columns and arches supporting a *fire separation* shall have a *fire-resistance rating* not less than that required for the *fire separation*.

### 3.2.2.23. Group A, Division 2, Any Height, Any Area, Sprinklered

(1) Except as permitted by Articles 3.2.2.24. to 3.2.2.28., a *building* classified as Group A, Division 2 shall conform to Sentence (2).

(2) Except as permitted by Article 3.2.2.16., the *building* referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* shall be *sprinklered*,
- (b) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 2 h,
- (c) *mezzanines* shall have a *fire-resistance rating* not less 1 h, and
- (d) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.24. Group A, Division 2, up to 6 Storeys, Any Area, Sprinklered

(1) A *building* classified as Group A, Division 2, that is not limited by *building area*, is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*, and
- (b) it is not more than 6 *storeys* in *building height*.

(2) Except as permitted by Article 3.2.2.16., the *building* referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* not less than 1 h, and
- (c) all *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.25. Group A, Division 2, up to 2 Storeys

(1) A *building* classified as Group A, Division 2 is permitted to conform to Sentence (2) provided

- (a) it is not more than 2 *storeys* in *building height*, and
- (b) it has a *building area* not more than the value in Table 3.2.2.25.

Table 3.2.2.25.

#### Maximum Building Area, Group A, Division 2, up to 2 Storeys

Forming Part of Sentence 3.2.2.25.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 600	2 000	2 400
2	800	1 000	1 200
Column 1	2	3	4

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min,

- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less 45 min,

- (c) roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min, except that in a *building* not more than 1 *storey* in *building height*, the *fire-resistance rating* is permitted to be waived provided the roof assembly is constructed as a *fire-retardant treated wood* roof system conforming to Article 3.1.14.1., and the *building area* is not more than

- (i) 800 m<sup>2</sup> if facing one *street*,
- (ii) 1 000 m<sup>2</sup> if facing 2 *streets*, or
- (iii) 1 200 m<sup>2</sup> if facing 3 *streets*, and

- (d) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall

- (i) have a *fire-resistance rating* not less than 45 min, or
- (ii) be of *noncombustible construction*.

### 3.2.2.26. Group A, Division 2, up to 2 Storeys, Increased Area, Sprinklered

(1) A *building* classified as Group A, Division 2 is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 2 *storeys* in *building height*, and
- (c) it has a *building area* not more than
  - (i) 4 800 m<sup>2</sup> if 1 *storey* in *building height*, or
  - (ii) 2 400 m<sup>2</sup> if 2 *storeys* in *building height*.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less 45 min, and
- (c) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*.

### 3.2.2.27. Group A, Division 2, up to 2 Storeys, Sprinklered

(1) A *building* classified as Group A, Division 2 is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 2 *storeys* in *building height*, and
- (c) it has a *building area* not more than

- (i) 2 400 m<sup>2</sup> if 1 storey in building height with no basement,
- (ii) 1 200 m<sup>2</sup> if 1 storey in building height, or
- (iii) 600 m<sup>2</sup> if 2 storeys in building height.

**3.2.2.28. Group A, Division 2, One Storey**

(1) A building classified as Group A, Division 2 is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, provided

- (a) it is not more than 1 storey in building height, and
- (b) except as permitted by Sentence (2), it has a building area not more than
  - (i) 400 m<sup>2</sup> if facing one street,
  - (ii) 500 m<sup>2</sup> if facing 2 streets, or
  - (iii) 600 m<sup>2</sup> if facing 3 streets.

(2) In a building referred to in Sentence (1) without a basement, the building area limits of Sentence (1) are permitted to be doubled provided a fire separation with a fire-resistance rating not less than 1 h is used to separate the building into fire compartments, each one of which does not exceed the area limits of Clause 1(b).

**3.2.2.29. Group A, Division 3, Any Height, Any Area**

(1) Except as permitted by Articles 3.2.2.30. to 3.2.2.34., a building classified as Group A, Division 3 shall conform to Sentence (2).

(2) Except as permitted by Article 3.2.2.16., the building referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) except as permitted by Sentence 3.2.2.7.(1), the building shall be *sprinklered* if it is regulated by Subsection 3.2.6.,
- (b) floor assemblies shall be fire separations with a fire-resistance rating not less than 2 h,
- (c) mezzanines shall have a fire-resistance rating not less than 1 h,
- (d) if the building is not *sprinklered*, roof assemblies shall have a fire-resistance rating not less than 1 h, and
- (e) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

**3.2.2.30. Group A, Division 3, up to 2 Storeys**

(1) A building classified as Group A, Division 3 is permitted to conform to Sentence (2) provided

- (a) it is not more than 2 storeys in building height, and
- (b) it has a building area not more than the value in Table 3.2.2.30.

**Table 3.2.2.30.****Maximum Building Area, Group A, Division 3, up to 2 Storeys**

Forming Part of Sentence 3.2.2.30.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	4 000	5 000	6 000
2	2 000	2 500	3 000
Column 1	2	3	4

(2) Except as permitted by Clauses (c) and (d), the building referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) floor assemblies shall be fire separations with a fire-resistance rating not less than 1 h,
- (b) mezzanines shall have a fire-resistance rating not less than 1 h,
- (c) roof assemblies shall
  - (i) have a fire-resistance rating not less than 45 min, or
  - (ii) be of heavy timber construction, and
- (d) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly, except that arches and structural members within the storey immediately below a roof assembly are permitted to be of heavy timber construction.

**3.2.2.31. Group A, Division 3, up to 2 Storeys, Sprinklered**

(1) A building classified as Group A, Division 3 is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the building shall be *sprinklered*,
- (b) it is not more than 2 storeys in building height, and
- (c) it has a building area not more than
  - (i) 12 000 m<sup>2</sup> if 1 storey in building height, or
  - (ii) 6 000 m<sup>2</sup> if 2 storeys in building height.

(2) Except as permitted by Clause (c) and Article 3.2.2.16., the building referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) floor assemblies shall be fire separations with a fire-resistance rating not less than 1 h,
- (b) mezzanines shall have a fire-resistance rating not less than 1 h, and
- (c) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly, except that arches are permitted to be of heavy timber construction.

**3.2.2.32. Group A, Division 3, One Storey, Increased Area**

(1) A building classified as Group A, Division 3 is permitted to conform to Sentence (2) provided



- (a) it is not more than 1 storey in building height, and
- (b) it has a building area not more than
  - (i) 2 400 m<sup>2</sup> if facing one street,
  - (ii) 3 000 m<sup>2</sup> if facing 2 streets, or
  - (iii) 3 600 m<sup>2</sup> if facing 3 streets.

(2) The building referred to in Sentence (1) is permitted to be of combustible construction or noncombustible construction used singly or in combination, and

- (a) mezzanines shall have, if of combustible construction, a fire-resistance rating not less than 45 min,
- (b) roof assemblies shall have, if of combustible construction, a fire-resistance rating not less than 45 min, except that the fire-resistance rating is permitted to be waived provided the roof assembly is constructed as a fire-retardant treated wood roof system conforming to Article 3.1.14.1., and the building area is not more than
  - (i) 1 200 m<sup>2</sup> if facing one street,
  - (ii) 1 500 m<sup>2</sup> if facing 2 streets, or
  - (iii) 1 800 m<sup>2</sup> if facing 3 streets, and
- (c) loadbearing walls, columns and arches supporting an assembly required to have a fire-resistance rating shall
  - (i) have a fire-resistance rating not less than 45 min, or
  - (ii) be of noncombustible construction.

### 3.2.2.33. Group A, Division 3, One Storey, Sprinklered

(1) A building classified as Group A, Division 3 is permitted to be of combustible construction or noncombustible construction used singly or in combination, provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the building is sprinklered,
- (b) it is not more than 1 storey in building height, and
- (c) it has a building area not more than 7 200 m<sup>2</sup>.

### 3.2.2.34. Group A, Division 3, One Storey

(1) A building classified as Group A, Division 3 is permitted to be of combustible construction or noncombustible construction used singly or in combination, provided

- (a) it is not more than 1 storey in building height, and
- (b) it has a building area not more than
  - (i) 1 000 m<sup>2</sup> if facing one street,
  - (ii) 1 250 m<sup>2</sup> if facing 2 streets, or
  - (iii) 1 500 m<sup>2</sup> if facing 3 streets.

### 3.2.2.35. Group A, Division 4

(1) Except as permitted by Sentences (2) and (3), a building classified as Group A, Division 4 shall be of noncombustible construction.

(2) Roof assemblies and supporting arches and columns are permitted to be of heavy timber construction.

(3) A building classified as Group A, Division 4 is permitted to be of combustible construction provided

- (a) the occupant load is less than 1 500, and
- (b) the building has a limiting distance not less than 6 m.

(4) Sprinklers shall be installed in all spaces below tiers of seats in a building classified as Group A, Division 4 if those spaces are used for occupancy.

### 3.2.2.36. Group B, Division 1, Any Height, Any Area, Sprinklered

(1) Except as permitted by Article 3.2.2.37., a building classified as Group B, Division 1 shall conform to Sentence (2).

(2) Except as permitted by Article 3.2.2.16., the building referred to in Sentence (1) shall be of noncombustible construction, and

- (a) except as permitted by Sentence 3.2.2.7.(1), the building shall be sprinklered,
- (b) floor assemblies shall be fire separations with a fire-resistance rating not less than 2 h,
- (c) mezzanines shall have a fire-resistance rating not less than 1 h, and
- (d) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

### 3.2.2.37. Group B, Division 1, up to 3 Storeys, Sprinklered

(1) A building classified as Group B, Division 1 is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1) the building is sprinklered,
- (b) it is not more than 3 storeys in building height, and
- (c) it has a building area
  - (i) that is not limited if the building is not more than 1 storey in building height,
  - (ii) not more than 12 000 m<sup>2</sup> if 2 storeys in building height, or
  - (iii) not more than 8 000 m<sup>2</sup> if 3 storeys in building height.

(2) Except as permitted by Article 3.2.2.16., the building referred to in Sentence (1) shall be of noncombustible construction, and

- (a) floor assemblies shall be fire separations with a fire-resistance rating not less than 1 h,
- (b) mezzanines shall have a fire-resistance rating not less than 1 h, and
- (c) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

**3.2.2.38. Group B, Division 2 or Division 3, Any Height, Any Area, Sprinklered**

(1) Except as permitted by Articles 3.2.2.39. to 3.2.2.41., a *building* classified as Group B, Division 2 or Division 3 shall conform to Sentence (2).

(2) Except as permitted by Article 3.2.2.16., the *building* referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* shall be *sprinklered*,
- (b) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 2 h,
- (c) *mezzanines* shall have a *fire-resistance rating* not less 1 h, and
- (d) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.39. Group B, Division 2 or Division 3, up to 3 Storeys, Sprinklered**

(1) A *building* classified as Group B, Division 2 or Division 3 is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 3 *storeys* in *building height*, and
- (c) it has a *building area*
  - (i) that is not limited if the *building* is not more than 1 *storey* in *building height*,
  - (ii) not more than 12 000 m<sup>2</sup> if 2 *storeys* in *building height*, or
  - (iii) not more than 8 000 m<sup>2</sup> if 3 *storeys* in *building height*.

(2) Except as permitted by Article 3.2.2.16., the *building* referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* not less than 1 h, and
- (c) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.40. Group B, Division 2 or Division 3, up to 2 Storeys, Sprinklered**

(1) A *building* classified as Group B, Division 2 or Division 3 is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 2 *storeys* in *building height*, and
- (c) it has a *building area* not more than

(i) 2 400 m<sup>2</sup> if 1 *storey* in *building height*, or

(ii) 1 600 m<sup>2</sup> if 2 *storeys* in *building height*.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min, and
- (c) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.41. Group B, Division 2 or Division 3, One Storey, Sprinklered**

(1) A *building* classified as Group B, Division 2 or Division 3 is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 1 *storey* in *building height*, and
- (c) it has a *building area* not more than 500 m<sup>2</sup>.

**3.2.2.42. Group C, Any Height, Any Area**

(1) Except as permitted by Articles 3.2.2.43. to 3.2.2.48., a *building* classified as Group C shall conform to Sentence (2).

(2) Except as permitted by Article 3.2.2.16., the *building* referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) Reserved
- (b) except as permitted by Sentence (3), floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 2 h,
- (c) *mezzanines* shall have a *fire-resistance rating* not less 1 h,
- (d) if the *building* is not *sprinklered*, roof assemblies shall have a *fire-resistance rating* not less than 1 h), and
- (e) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) In a *building* that contains *dwelling units* that have more than 1 *storey*, subject to the requirements of Sentence 3.3.4.2.(2), the floor assemblies, including floors over *basements*, which are entirely contained within these *dwelling units*, shall have a *fire-resistance rating* not less than 1 h but need not be constructed as *fire separations*.

**3.2.2.43. Group C, up to 6 Storeys**

(1) A *building* classified as Group C is permitted to conform to Sentence (2) provided

- (a) it is not more than 6 *storeys* in *building height*, and
- (b) it has a *building area* not more than the value in Table 3.2.2.43.A. or Table 3.2.2.43.B.

Table 3.2.2.43.A.

## Maximum Building Area, Group C, up to 6 Storeys

Forming Part of Sentence 3.2.2.43.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	unlimited	unlimited	unlimited
2	6 000	unlimited	unlimited
3	4 000	5 000	6 000
4	3 000	3 750	4 500
5	2 400	3 000	3 600
6	2 000	2 500	3 000
Column 1	2	3	4

Table 3.2.2.43.B.

## Maximum Building Area, Group C, up to 6 Storeys, Sprinklered

Forming Part of Sentence 3.2.2.43.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>
1	unlimited
2	unlimited
3	12 000
4	9 000
5	7 200
6	6 000
Column 1	2

(2) The building referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) except as permitted by Sentence (3), floor assemblies shall be *fire separations* with a *fire-resistance rating* of not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* of not less than 1 h,
- (c) if the building is not *sprinklered*, roof assemblies shall have a *fire-resistance rating* not less than 1 h, and
- (d) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) In a building that contains *dwelling units* that have more than 1 storey, subject to the requirements of Sentence 3.3.4.2.(3), the floor assemblies, including floors over *basements*, which are entirely contained within these *dwelling units*, shall have a *fire-resistance rating* not less than 1 h but need not be constructed as *fire separations*.

## 3.2.2.44. Reserved

## 3.2.2.45. Group C, up to 4 Storeys, Sprinklered

(1) A building classified as Group C is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the building is *sprinklered*,

(b) it is not more than 4 storeys in building height, and

(c) it has a building area not more than

- (i) 7 200 m<sup>2</sup> if 1 storey in building height,
- (ii) 3 600 m<sup>2</sup> if 2 storeys in building height,
- (iii) 2 400 m<sup>2</sup> if 3 storeys in building height, or
- (iv) 1 800 m<sup>2</sup> if 4 storeys in building height.

(2) The building referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) except as permitted by Sentences (3) and (4), floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* not less than 1 h, and
- (c) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) In a building that contains *dwelling units* that have more than 1 storey, subject to the requirements of Sentence 3.3.4.2.(2), the floor assemblies, including floors over *basements*, which are entirely contained within these *dwelling units*, shall have a *fire-resistance rating* not less than 1 h but need not be constructed as *fire separations*.

(4) In a building in which there is no *dwelling unit* above another *dwelling unit*, the *fire-resistance rating* for floor assemblies entirely within the *dwelling unit* is waived.

## 3.2.2.46. Group C, up to 3 Storeys, Increased Area

(1) A building classified as Group C is permitted to conform to Sentence (2) provided

- (a) it is not more than 3 storeys in building height, and
- (b) it has a building area not more than the value in Table 3.2.2.46.

Table 3.2.2.46.

## Maximum Building Area, Group C, up to 3 Storeys, Increased Area

Forming Part of Sentence 3.2.2.46.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	2 400	3 000	3 600
2	1 200	1 500	1 800
3	800	1 000	1 200
Column 1	2	3	4

(2) The building referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) except as permitted by Sentences (3) and (4), floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 1 h,



- (b) *mezzanines* shall have a *fire-resistance rating* not less than 1 h,
- (c) roof assemblies shall have a *fire-resistance rating* not less than 1 h, and
- (d) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) In a *building* that contains *dwelling units* that have more than 1 storey, subject to the requirements of Sentence 3.3.4.2.(2), the floor assemblies, including floors over *basements*, which are entirely contained within these *dwelling units*, shall have a *fire-resistance rating* not less than 1 h but need not be constructed as *fire separations*.

(4) In a *building* in which there is no *dwelling unit* above another *dwelling unit*, the *fire-resistance rating* for floor assemblies entirely within the *dwelling unit* is waived.

### 3.2.2.47. Group C, up to 3 Storeys

(1) A *building* classified as Group C is permitted to conform to Sentence (2) provided

- (a) it is not more than 3 storeys in building height, and
- (b) it has a *building area* not more than the value in Table 3.2.2.47.

Table 3.2.2.47.

#### Maximum Building Area, Group C, up to 3 Storeys

Forming Part of Sentence 3.2.2.47.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 800	2 250	2 700
2	900	1 125	1 350
3	600	750	900
Column 1	2	3	4

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) except as permitted by Sentences (3) and (4), floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction* a *fire-resistance rating* not less than 45 min, and
- (c) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) In a *building* that contains *dwelling units* that have more than 1 storey, subject to the requirements of Sentence 3.3.4.2.(2), the floor assemblies, including floors over *basements*, which are entirely contained within these *dwelling units*, shall have a *fire-resistance rating* not less than 45 min but need not be constructed as *fire separations*.

(4) In a *building* in which there is no *dwelling unit* above another *dwelling unit*, the *fire-resistance rating* for floor assemblies entirely within the *dwelling unit* is waived.

### 3.2.2.48. Group C, up to 3 Storeys, Sprinklered

(1) A *building* classified as Group C is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 3 storeys in building height, and
- (c) it has a *building area* not more than
  - (i) 5 400 m<sup>2</sup> if 1 storey in building height,
  - (ii) 2 700 m<sup>2</sup> if 2 storeys in building height, or
  - (iii) 1 800 m<sup>2</sup> if 3 storeys in building height.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) except as permitted by Sentences (3) and (4), floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction* a *fire-resistance rating* not less than 45 min, and
- (c) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(3) In a *building* that contains *dwelling units* that have more than 1 storey, subject to the requirements of Sentence 3.3.4.2.(2), the floor assemblies, including floors over *basements*, which are entirely contained within these *dwelling units*, shall have a *fire-resistance rating* not less than 45 min but need not be constructed as *fire separations*.

(4) In a *building* in which there is no *dwelling unit* above another *dwelling unit*, the *fire-resistance rating* for floor assemblies entirely within the *dwelling unit* is waived.

### 3.2.2.49. Group D, Any Height, Any Area

(1) Except as permitted by Articles 3.2.2.50. to 3.2.2.56., a *building* classified as Group D shall conform to Sentence (2).

(2) Except as permitted by Article 3.2.2.16., the *building* referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* shall be *sprinklered* if it is regulated by Subsection 3.2.6.,
- (b) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 2 h,
- (c) *mezzanines* shall have a *fire-resistance rating* not less than 1 h,
- (d) if the *building* is not *sprinklered*, roof assemblies shall have a *fire-resistance rating* not less than 1 h, except that in a *building* not more than 1 storey in building height this requirement is waived, and
- (e) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.50. Group D, up to 6 Storeys

(1) A *building* classified as Group D is permitted to conform to Sentence (2) provided

- (a) it is not more than 6 storeys in *building height*, and
- (b) it has a *building area* not more than the value in Table 3.2.2.50.

**Table 3.2.2.50.****Maximum Building Area, Group D, up to 6 Storeys**

Forming Part of Sentence 3.2.2.50.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	not limited	not limited	not limited
2	7 200	not limited	not limited
3	4 800	6 000	7 200
4	3 600	4 500	5 400
5	2 800	3 600	4 320
6	2 400	3 000	3 600
Column 1	2	3	4

(2) The *building* referred to in Sentence (1) shall be of *non-combustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* not less than 1 h,
- (c) roof assemblies shall have a *fire-resistance rating* not less than 1 h, except that in a *building* not more than 1 storey in *building height* this requirement is waived, and
- (d) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.51. Group D, up to 6 Storeys, Sprinklered**

(1) A *building* classified as Group D is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 6 storeys in *building height*, and
- (c) it has a *building area*
  - (i) that is not limited if the *building* is not more than 2 storeys in *building height*,
  - (ii) not more than 14 400 m<sup>2</sup> if 3 storeys in *building height*,
  - (iii) not more than 10 800 m<sup>2</sup> if 4 storeys in *building height*,
  - (iv) not more than 8 640 m<sup>2</sup> if 5 storeys in *building height*, or
  - (v) not more than 7 200 m<sup>2</sup> if 6 storeys in *building height*.

(2) Except as permitted by Article 3.2.2.16., the *building* referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 1 h,

- (b) *mezzanines* shall have a *fire-resistance rating* not less than 1 h, and
- (c) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.52. Group D, up to 4 Storeys, Sprinklered**

(1) A *building* classified as Group D is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 4 storeys in *building height*, and
- (c) it has a *building area* not more than 3 600 m<sup>2</sup>.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* not less than 1 h, and
- (c) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

**3.2.2.53. Group D, up to 3 Storeys**

(1) A *building* classified as Group D is permitted to conform to Sentence (2) provided

- (a) it is not more than 3 storeys in *building height*, and
- (b) it has a *building area* not more than the value in Table 3.2.2.53.

**Table 3.2.2.53.****Maximum Building Area, Group D, up to 3 Storeys**

Forming Part of Sentence 3.2.2.53.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	4 800	6 000	7 200
2	2 400	3 000	3 600
3	1 600	2 000	2 400
Column 1	2	3	4

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min,

- (c) roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min, except that in a *building* not more than 1 storey in *building height*, the *fire-resistance rating* is permitted to be waived provided the roof assembly is constructed as a *fire-retardant treated wood roof system* conforming to Article 3.1.14.1., and the *building area* is not more than

- (i) 2 400 m<sup>2</sup> if facing one *street*,
- (ii) 3 000 m<sup>2</sup> if facing 2 *streets*, or
- (iii) 3 600 m<sup>2</sup> if facing 3 *streets*, and

- (d) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall

- (i) have a *fire-resistance rating* not less than 45 min, or
- (ii) be of *noncombustible construction*.

### 3.2.2.54. Group D, up to 3 Storeys, Sprinklered

(1) A *building* classified as Group D is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 3 *storeys* in *building height*, and
- (c) it has a *building area* not more than
  - (i) 14 400 m<sup>2</sup> if 1 *storey* in *building height*,
  - (ii) 7 200 m<sup>2</sup> if 2 *storeys* in *building height*, or
  - (iii) 4 800 m<sup>2</sup> if 3 *storeys* in *building height*.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min, and
- (c) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*.

### 3.2.2.55. Group D, up to 2 Storeys

(1) A *building* classified as Group D is permitted to conform to Sentence (2) provided

- (a) it is not more than 2 *storeys* in *building height*, and
- (b) it has a *building area* not more than the value in Table 3.2.2.55.

Table 3.2.2.55.

### Maximum Building Area, Group D, up to 2 Storeys

Forming Part of Sentence 3.2.2.55.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 000	1 250	1 500
2	800	1 000	1 200
Column 1	2	3	4

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min, and
- (b) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*.

### 3.2.2.56. Group D, up to 2 Storeys, Sprinklered

(1) A *building* classified as Group D is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 2 *storeys* in *building height*, and
- (c) it has a *building area* not more than
  - (i) 3 000 m<sup>2</sup> if 1 *storey* in *building height*, or
  - (ii) 2 400 m<sup>2</sup> if 2 *storeys* in *building height*.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min, and
- (b) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*.

### 3.2.2.57. Group E, Any Height, Any Area, Sprinklered

(1) Except as permitted by Articles 3.2.2.58. to 3.2.2.62., a *building* classified as Group E shall conform to Sentence (2).

(2) Except as permitted by Article 3.2.2.16., the *building* referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* shall be *sprinklered*,



- (b) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 2 h,
- (c) *mezzanines* shall have a *fire-resistance rating* not less 1 h, and
- (d) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.58. Group E, up to 4 Storeys, Sprinklered

(1) A *building* classified as Group E is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 4 *storeys* in *building height*, and
- (c) it has a *building area* not more than 1 800 m<sup>2</sup>.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* not less than 1 h, and
- (c) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.59. Group E, up to 3 Storeys

(1) A *building* classified as Group E is permitted to conform to Sentence (2) provided

- (a) it is not more than 3 *storeys* in *building height*, and
- (b) it has a *building area* not more than the value in Table 3.2.2.59.

**Table 3.2.2.59.**

#### Maximum Building Area, Group E, up to 3 Storeys

Forming Part of Sentence 3.2.2.59.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 500	1 500	1 500
2	1 200	1 500	1 500
3	800	1 000	1 500
Column 1	2	3	4

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 45 min,

- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min,

- (c) roof assemblies shall have a *fire-resistance rating* not less than 45 min, except that in a *building* not more than 1 *storey* in *building height*, the *fire-resistance rating* is permitted to be waived provided the roof assembly is of *noncombustible construction* or is constructed as a *fire-retardant treated wood* roof system conforming to Article 3.1.14.1.,

- (d) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall

- (i) have a *fire-resistance rating* not less than 45 min, or
- (ii) be of *noncombustible construction*, and

- (e) *loadbearing* walls, columns and arches supporting a *fire separation* shall have a *fire-resistance rating* not less than that required for the *fire separation*.

### 3.2.2.60. Group E, up to 3 Storeys, Sprinklered

(1) A *building* classified as Group E is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 3 *storeys* in *building height*, and
- (c) it has a *building area* not more than
  - (i) 7 200 m<sup>2</sup> if 1 *storey* in *building height*,
  - (ii) 3 600 m<sup>2</sup> if 2 *storeys* in *building height*, or
  - (iii) 2 400 m<sup>2</sup> if 3 *storeys* in *building height*.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min,
- (c) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*, and
- (d) *loadbearing* walls, columns and arches supporting a *fire separation* shall have a *fire-resistance rating* not less than that required for the *fire separation*.

### 3.2.2.61. Group E, up to 2 Storeys

(1) A *building* classified as Group E is permitted to conform to Sentence (2) provided

- (a) it is not more than 2 *storeys* in *building height*, and
- (b) it has a *building area* not more than the value in Table 3.2.2.61.

**Table 3.2.2.61.**

#### Maximum Building Area, Group E, up to 2 Storeys

Forming Part of Sentence 3.2.2.61.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 000	1 250	1 500
2	600	750	900
Column 1	2	3	4

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 45 min, and
- (b) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.62. Group E, up to 2 Storeys, Sprinklered

(1) A *building* classified as Group E is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 2 *storeys* in *building height*, and
- (c) it has a *building area* not more than
  - (i) 3 000 m<sup>2</sup> if 1 *storey* in *building height*, or
  - (ii) 1 800 m<sup>2</sup> if 2 *storeys* in *building height*.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 45 min, and
- (b) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.63. Group F, Division 1, up to 4 Storeys, Sprinklered

(1) Except as permitted by Articles 3.2.2.64. to 3.2.2.66., a *building* classified as Group F, Division 1 shall conform to Sentence (2) provided

- (a) it is not more than 4 *storeys* in *building height*, and
- (b) it has a *building area* not more than
  - (i) 9 000 m<sup>2</sup> if 1 *storey* in *building height*,
  - (ii) 4 500 m<sup>2</sup> if 2 *storeys* in *building height*,
  - (iii) 3 000 m<sup>2</sup> if 3 *storeys* in *building height*, or
  - (iv) 2 250 m<sup>2</sup> if 4 *storeys* in *building height*.

(2) Except as permitted by Article 3.2.2.16., the *building* referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* shall be *sprinklered*,
- (b) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 2 h,
- (c) *mezzanines* shall have a *fire-resistance rating* not less than 1 h, and

(d) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.64. Group F, Division 1, up to 3 Storeys, Sprinklered

(1) A *building* classified as Group F, Division 1 is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 3 *storeys* in *building height*, and
- (c) it has a *building area* not more than
  - (i) 3 600 m<sup>2</sup> if 1 *storey* in *building height*,
  - (ii) 1 800 m<sup>2</sup> if 2 *storeys* in *building height*, or
  - (iii) 1 200 m<sup>2</sup> if 3 *storeys* in *building height*.

(2) The *building* referred to in Sentence (1) is permitted to be of *heavy timber construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 45 min,
- (b) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.65. Group F, Division 1, up to 2 Storeys, Sprinklered

(1) A *building* classified as Group F, Division 1 is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 2 *storeys* in *building height*, and
- (c) it has a *building area* not more than
  - (i) 2 400 m<sup>2</sup> if 1 *storey* in *building height*, or
  - (ii) 1 200 m<sup>2</sup> if 2 *storeys* in *building height*.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min,
- (b) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*.

### 3.2.2.66. Group F, Division 1, One Storey

(1) A *building* classified as Group F, Division 1 is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination provided

(a) it is not more than 1 storey in building height, and

(b) it has a building area not more than 800 m<sup>2</sup>.

### 3.2.2.67. Group F, Division 2, Any Height, Any Area, Sprinklered

(1) Except as permitted by Articles 3.2.2.68. to 3.2.2.72., a building classified as Group F, Division 2 shall conform to Sentence (2).

(2) Except as permitted by Article 3.2.2.16., the building referred to in Sentence (1) shall be of *noncombustible construction*, and

(a) except as permitted by Sentence 3.2.2.7.(1), the building shall be sprinklered,

(b) floor assemblies shall be fire separations with a fire-resistance rating not less than 2 h,

(c) mezzanines shall have a fire-resistance rating not less than 1 h, and

(d) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

### 3.2.2.68. Group F, Division 2, up to 6 Storeys

(1) A building classified as Group F, Division 2 is permitted to conform to Sentence (2) provided

(a) it is not more than 6 storeys in building height, and

(b) it has a building area not more than the value in Table 3.2.2.68.A. or Table 3.2.2.68.B.

Table 3.2.2.68.A.

#### Maximum Building Area, Group F, Division 2, up to 6 Storeys

Forming Part of Sentence 3.2.2.68.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	9 000	11 250	13 500
2	4 500	5 625	6 750
3	3 000	3 750	4 500
4	2 250	2 810	3 375
5	1 800	2 250	2 700
6	1 500	1 875	2 250
Column 1	2	3	4

Table 3.2.2.68.B.

#### Maximum Building Area, Group F, Division 2, up to 6 Storeys, Sprinklered

Forming Part of Sentence 3.2.2.68.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>
1	27 000
2	13 500
3	9 000
4	6 750
5	5 400
6	4 500
Column 1	2

(2) Except as permitted by Article 3.2.2.16., the building referred to in Sentence (1) shall be of *noncombustible construction*, and

(a) floor assemblies shall be fire separations with a fire-resistance rating not less than 2 h,

(b) mezzanines shall have a fire-resistance rating not less than 1 h,

(c) if the building is not sprinklered, roof assemblies shall have a fire-resistance rating not less than 1 h, and

(d) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

### 3.2.2.69. Group F, Division 2, up to 4 Storeys, Increased Area

(1) A building classified as Group F, Division 2 is permitted to conform to Sentence (2) provided

(a) it is not more than 4 storeys in building height, and

(b) it has a building area not more than the value in Table 3.2.2.69.A. or Table 3.2.2.69.B.

Table 3.2.2.69.A.

#### Maximum Building Area, Group F, Division 2, up to 4 Storeys, Increased Area

Forming Part of Sentence 3.2.2.69.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	6 000	7 500	9 000
2	3 000	3 750	4 500
3	2 000	2 500	3 000
4	1 500	1 875	2 250
Column 1	2	3	4

Table 3.2.2.69.B.

#### Maximum Building Area, Group F, Division 2, up to 4 Storeys, Increased Area, Sprinklered

Forming Part of Sentence 3.2.2.69.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>
1	18 000
2	9 000
3	6 000
4	4 500
Column 1	2



(2) Except as permitted by Article 3.2.2.16., the building referred to in Sentence (1) shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* not less than 1 h,
- (c) if the building is not *sprinklered*, roof assemblies shall have a *fire-resistance rating* not less than 1 h, and
- (d) *loadbearing* walls, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.70. Group F, Division 2, up to 4 Storeys

(1) A building classified as Group F, Division 2 is permitted to conform to Sentence (2) provided

- (a) it is not more than 4 storeys in building height, and
- (b) it has a building area not more than the value in Table 3.2.2.70.A. or Table 3.2.2.70.B.

**Table 3.2.2.70.A.**

#### Maximum Building Area, Group F, Division 2, up to 4 Storeys

Forming Part of Sentence 3.2.2.70.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	3 200	4 000	4 800
2	1 600	2 000	2 400
3	1 070	1 340	1 600
4	800	1 000	1 200
Column 1	2	3	4

**Table 3.2.2.70.B.**

#### Maximum Building Area, Group F, Division 2, up to 4 Storeys Increased Area, Sprinklered

Forming Part of Sentence 3.2.2.70.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>
1	9 600
2	4 800
3	3 200
4	2 400
Column 1	2

(2) The building referred to in Sentence (1) shall be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min,

(c) if the building is not *sprinklered*, roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min, except that in buildings not more than 1 storey in building height, the *fire-resistance rating* is permitted to be waived provided the roof assembly is constructed as a *fire-retardant treated wood* roof system conforming to Article 3.1.14.1., and the building area is not more than

- (i) 1 600 m<sup>2</sup> if facing 1 street,
- (ii) 2 000 m<sup>2</sup> if facing 2 streets, or
- (iii) 2 400 m<sup>2</sup> if facing 3 streets,

(d) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall

- (i) have a *fire-resistance rating* not less than 45 min, or
- (ii) be of *noncombustible construction*, and

(e) *loadbearing* walls, columns and arches supporting a *fire separation* shall have a *fire-resistance rating* not less than that required for the supported assembly.

### 3.2.2.71. Group F, Division 2, up to 2 Storeys

(1) A building classified as Group F, Division 2 is permitted to conform to Sentence (2) provided

- (a) it is not more than 2 storeys in building height, and
- (b) it has a building area not more than the value in Table 3.2.2.71.

**Table 3.2.2.71.**

#### Maximum Building Area, Group F, Division 2, up to 2 Storeys

Forming Part of Sentence 3.2.2.71.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 000	1 250	1 500
2	600	750	900
Column 1	2	3	4

(2) The building referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min, and
- (b) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*.

### 3.2.2.72. Group F, Division 2, up to 2 Storeys, Sprinklered

(1) A building classified as Group F, Division 2 is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the building is *sprinklered*,

(b) it is not more than 2 storeys in building height, and

(c) it has a building area not more than

(i) 4 500 m<sup>2</sup> if 1 storey in building height, or

(ii) 1 800 m<sup>2</sup> if 2 storeys in building height.

(2) The building referred to in Sentence (1) is permitted to be of combustible construction or noncombustible construction used singly or in combination, and

(a) floor assemblies shall be fire separations and, if of combustible construction, shall have a fire-resistance rating not less than 45 min, and

(b) loadbearing walls, columns and arches supporting an assembly required to have a fire-resistance rating shall

(i) have a fire-resistance rating not less than 45 min, or

(ii) be of noncombustible construction.

### 3.2.2.73. Group F, Division 3, Any Height, Any Area

(1) Except as permitted by Articles 3.2.2.74. to 3.2.2.83., a building classified as Group F, Division 3 shall conform to Sentence (2).

(2) Except as permitted by Article 3.2.2.16., the building referred to in Sentence (1) shall be of noncombustible construction, and

(a) except as permitted by Sentence 3.2.2.7.(1), the building shall be sprinklered if it is regulated by Subsection 3.2.6.,

(b) floor assemblies shall be fire separations with a fire-resistance rating not less than 2 h, except that floor assemblies are permitted to be fire separations with a fire-resistance rating not less than 1 h in a storage garage with all storeys constructed as open-air storeys,

(c) mezzanines shall have a fire-resistance rating not less 1 h,

(d) if the building is not sprinklered, roof assemblies shall have a fire-resistance rating not less than 1 h, and

(e) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

### 3.2.2.74. Group F, Division 3, up to 6 Storeys

(1) A building classified as Group F, Division 3 is permitted to conform to Sentence (2) provided

(a) it is not more than 6 storeys in building height, and

(b) it has a building area not more than the value in Table 3.2.2.74.

Table 3.2.2.74.

### Maximum Building Area, Group F, Division 3, up to 6 Storeys

Forming Part of Sentence 3.2.2.74.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	not limited	not limited	not limited
2	7 200	9 000	10 800
3	4 800	6 000	7 200
4	3 600	4 500	5 400
5	2 880	3 600	4 320
6	2 400	3 000	3 600
Column 1	2	3	4

(2) The building referred to in Sentence (1) shall be of noncombustible construction, and

(a) floor assemblies shall be fire separations with a fire-resistance rating not less than 1 h,

(b) mezzanines shall have a fire-resistance rating not less than 1 h,

(c) roof assemblies shall have a fire-resistance rating not less than 1 h, and

(d) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

### 3.2.2.75. Group F, Division 3, up to 6 Storeys, Sprinklered

(1) A building classified as Group F, Division 3 is permitted to conform to Sentence (2) provided

(a) except as permitted by Sentence 3.2.2.7.(1), the building is sprinklered,

(b) it is not more than 6 storeys in building height, and

(c) it has a building area

(i) that is not limited if the building is not more than 1 storey in building height,

(ii) not more than 21 600 m<sup>2</sup> if 2 storeys in building height,

(iii) not more than 14 400 m<sup>2</sup> if 3 storeys in building height,

(iv) not more than 10 800 m<sup>2</sup> if 4 storeys in building height,

(v) not more than 8 640 m<sup>2</sup> if 5 storeys in building height, or

(vi) not more than 7 200 m<sup>2</sup> if 6 storeys in building height.

(2) Except as permitted by Article 3.2.2.16., the building referred to in Sentence (1) shall be of noncombustible construction, and

(a) floor assemblies shall be fire separations with a fire-resistance rating not less than 1 h,

(b) mezzanines shall have a fire-resistance rating not less than 1 h, and

(c) loadbearing walls, columns and arches shall have a fire-resistance rating not less than that required for the supported assembly.

**3.2.2.76. Group F, Division 3, up to 4 Storeys**

(1) A *building* classified as Group F, Division 3 is permitted to conform to Sentence (2) provided

- (a) it is not more than 4 *storeys* in *building height*, and
- (b) it has a *building area* not more than the value in Table 3.2.2.76.

**Table 3.2.2.76.****Maximum Building Area, Group F, Division 3, up to 4 Storeys**

Forming Part of Sentence 3.2.2.76.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	4 800	6 000	7 200
2	2 400	3 000	3 600
3	1 600	2 000	2 400
4	1 200	1 500	1 800
Column 1	2	3	4

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min,
- (c) roof assemblies shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min, except that in a *building* not more than 1 *storey* in *building height*, the *fire-resistance rating* is permitted to be waived provided the roof assembly is constructed as a *fire-retardant treated wood roof* system conforming to Article 3.1.14.1., and the *building area* is not more than
  - (i) 2 400 m<sup>2</sup> if facing 1 *street*,
  - (ii) 3 000 m<sup>2</sup> if facing 2 *streets*, or
  - (iii) 3 600 m<sup>2</sup> if facing 3 *streets*, and
- (d) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*.

**3.2.2.77. Group F, Division 3, up to 4 Storeys, Sprinklered**

(1) A *building* classified as Group F, Division 3 is permitted to conform to Sentence (2) provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 4 *storeys* in *building height*, and

(c) it has a *building area* not more than

- (i) 14 400 m<sup>2</sup> if 1 *storey* in *building height*,
- (ii) 7 200 m<sup>2</sup> if 2 *storeys* in *building height*,
- (iii) 4 800 m<sup>2</sup> if 3 *storeys* in *building height*, or
- (iv) 3 600 m<sup>2</sup> if 4 *storeys* in *building height*.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min,
- (b) *mezzanines* shall have, if of *combustible construction*, a *fire-resistance rating* not less than 45 min, and
- (c) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*.

**3.2.2.78. Group F, Division 3, up to 2 Storeys**

(1) A *building* classified as Group F, Division 3 is permitted to conform to Sentence (2) provided

- (a) it is not more than 2 *storeys* in *building height*, and
- (b) it has a *building area* not more than the value in Table 3.2.2.78.

**Table 3.2.2.78.****Maximum Building Area, Group F, Division 3, up to 2 Storeys**

Forming Part of Sentence 3.2.2.78.(1)

No. of Storeys	Maximum Area, m <sup>2</sup>		
	Facing 1 Street	Facing 2 Streets	Facing 3 Streets
1	1 600	2 000	2 400
2	800	1 000	1 200
Column 1	2	3	4

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min,
- (b) *loadbearing* walls, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*.

**3.2.2.79. Group F, Division 3, up to 2 Storeys, Sprinklered**

(1) A *building* classified as Group F, Division 3 is permitted to conform to Sentence (2) provided



- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 2 *storeys* in *building height*, and
- (c) it has a *building area* not more than
  - (i) 7 200 m<sup>2</sup> if 1 *storey* in *building height*, or
  - (ii) 2 400 m<sup>2</sup> if 2 *storeys* in *building height*.

(2) The *building* referred to in Sentence (1) is permitted to be of *combustible construction* or *noncombustible construction* used singly or in combination, and

- (a) floor assemblies shall be *fire separations* and, if of *combustible construction*, shall have a *fire-resistance rating* not less than 45 min,
- (b) *loadbearing walls*, columns and arches supporting an assembly required to have a *fire-resistance rating* shall
  - (i) have a *fire-resistance rating* not less than 45 min, or
  - (ii) be of *noncombustible construction*.

### 3.2.2.80. Group F, Division 3, One Storey

(1) A *building* classified as Group F, Division 3 is permitted to be of *heavy timber construction* or *noncombustible construction* used singly or in combination provided

- (a) it is not more than 1 *storey* in *building height*, and
- (b) it has a *building area* is not more than
  - (i) 5 600 m<sup>2</sup> if facing 1 *street*,
  - (ii) 7 000 m<sup>2</sup> if facing 2 *streets*, or
  - (iii) 8 400 m<sup>2</sup> if facing 3 *streets*.

### 3.2.2.81. Group F, Division 3, One Storey, Sprinklered

(1) A *building* classified as Group F, Division 3 is permitted to be of *heavy timber construction* or *noncombustible construction* used singly or in combination provided

- (a) except as permitted by Sentence 3.2.2.7.(1), the *building* is *sprinklered*,
- (b) it is not more than 1 *storey* in *building height*, and
- (c) it has a *building area* not more than 16 800 m<sup>2</sup>.

### 3.2.2.82. Group F, Division 3, One Storey, Any Area, Low Fire Load Occupancy

(1) A *building* classified as Group F, Division 3 is permitted to conform to Sentence (2) provided it is

- (a) not more than 1 *storey* in *building height*,

- (b) used solely for low *fire load occupancies* such as

- (i) power generating plants, or
- (ii) plants for the manufacture or storage of *noncombustible materials*, and

- (c) not limited in *building area*.

(2) The *building* referred to in Sentence (1) shall be of *noncombustible construction*.

### 3.2.2.83. Group F, Division 3, Storage Garages up to 22 m High

(1) A *building* used as a *storage garage* with all *storeys* constructed as *open-air storeys* and having no other *occupancy* above it is permitted to have its floor, wall, ceiling and roof assemblies constructed without a *fire-resistance rating* provided it is

- (a) of *noncombustible construction*,
- (b) not more than 22 m high, measured between *grade* and the ceiling level of the top *storey*,
- (c) not more than 10 000 m<sup>2</sup> in *building area*, and
- (d) designed so that every portion of each *floor area* is within 60 m of an exterior wall opening.

### 3.2.3. Spatial Separation and Exposure Protection

#### 3.2.3.1. Limiting Distance and Area of Unprotected Openings

(1) Except as permitted by Articles 3.2.3.9. to 3.2.3.11., the area of *unprotected openings* in an *exposing building face* for the applicable *limiting distance* shall be not more than the value determined in accordance with

- (a) Table 3.2.3.1.A. or Table 3.2.3.1.B. for an *exposing building face* conforming to Article 3.2.3.2. of a *building* or *fire compartment* which is not *sprinklered*, or
- (b) Table 3.2.3.1.C. or Table 3.2.3.1.D. for an *exposing building face* conforming to Article 3.2.3.2. of a *sprinklered fire compartment* that is part of a *building* which is *sprinklered* in conformance with Section 3.2.

(2) The area of the *unprotected openings* in an *exposing building face* shall be the aggregate area of *unprotected openings* expressed as a percentage of the area of the *exposing building face* in Table 3.2.3.1.A., Table 3.2.3.1.B., Table 3.2.3.1.C. or Table 3.2.3.1.D.

(3) For the purpose of determining the type of construction and cladding and the *fire-resistance rating* of an exterior wall

- (a) the *exposing building face* shall be taken as the projection of the exterior wall onto a vertical plane located so that no portion of the exterior wall of the *building* or of a *fire compartment*, if the *fire compartment* complies with the requirements of Sentences 3.2.3.2.(2), (4) or (6), is between the vertical plane and the line to which the *limiting distance* is measured, and
- (b) the area of *unprotected openings* shall be determined from Table 3.2.3.1.A., Table 3.2.3.1.B., Table 3.2.3.1.C. or Table 3.2.3.1.D.

Table 3.2.3.1.A.

## Unprotected Opening Limits for a Building or Fire Compartment that is not Sprinklered

Forming Part of Article 3.2.3.1.

Exposing Building Face		Area of Unprotected Openings for Groups A, C, D, and F, Division 3 Occupancies, %																													
Maximum Area, m <sup>2</sup>	Ratio (L/H or H/L) <sup>(1)</sup>	Limiting Distance, m																													
		0	1.2	1.5	2.0	2.5	3	4	5	6	7	8	9	10	11	12	13	14	16	18	20	25	30	35	40	45	50				
10	Less than 3:1	0	8	10	18	29	46	91	100																						
	3:1 to 10:1	0	8	12	21	33	50	96	100																						
	over 10:1	0	11	18	32	48	68	100																							
15	Less than 3:1	0	7	9	14	22	33	63	100																						
	3:1 to 10:1	0	8	10	17	25	37	67	100																						
	over 10:1	0	10	15	26	39	53	87	100																						
20	Less than 3:1	0	7	9	12	18	26	49	81	100																					
	3:1 to 10:1	0	8	10	15	21	30	53	85	100																					
	over 10:1	0	9	14	23	33	45	72	100																						
25	Less than 3:1	0	7	8	11	16	23	41	66	98	100																				
	3:1 to 10:1	0	8	9	13	19	26	45	70	100																					
	over 10:1	0	9	13	21	30	39	62	90	100																					
30	Less than 3:1	0	7	8	11	15	20	35	56	83	100																				
	3:1 to 10:1	0	7	9	12	17	23	39	61	88	100																				
	over 10:1	0	8	12	19	27	36	56	79	100																					
40	Less than 3:1	0	7	8	10	13	17	28	44	64	89	100																			
	3:1 to 10:1	0	7	8	11	15	20	32	48	69	93	100																			
	over 10:1	0	8	11	17	24	31	47	66	88	100																				
50	Less than 3:1	0	7	8	9	12	15	24	37	53	72	96	100																		
	3:1 to 10:1	0	7	8	10	14	18	28	41	57	77	100																			
	over 10:1	0	8	10	15	21	28	41	57	76	97	100																			
60	Less than 3:1	0	7	8	9	11	14	21	32	45	62	81	100																		
	3:1 to 10:1	0	7	8	10	13	16	25	36	49	66	85	100																		
	over 10:1	0	8	10	14	20	25	38	51	67	85	100																			
80	Less than 3:1	0	7	7	8	10	12	18	26	36	48	62	79	98	100																
	3:1 to 10:1	0	7	8	9	11	14	21	29	40	52	67	84	100																	
	over 10:1	0	8	9	13	17	22	32	44	56	70	86	100																		
100	Less than 3:1	0	7	7	8	9	11	16	22	30	40	51	65	80	97	100															
	3:1 to 10:1	0	7	8	9	11	13	18	25	34	44	56	69	84	100																
	over 10:1	0	7	9	12	16	20	29	39	49	61	74	89	100																	
150	Less than 3:1	0	7	7	8	9	10	13	17	22	29	37	46	56	67	79	93	100													
	3:1 to 10:1	0	7	7	8	10	11	15	20	26	33	41	50	60	71	84	97	100													
	over 10:1	0	7	8	11	13	17	24	31	39	48	57	68	79	91	100															
250	Less than 3:1	0	7	7	7	8	9	10	13	16	20	25	30	36	43	51	59	68	87	100											
	3:1 to 10:1	0	7	7	8	9	10	12	15	19	24	28	34	40	47	55	63	72	92	100											
	over 10:1	0	7	8	9	11	14	19	24	30	36	43	50	57	65	73	82	92	100												
350	Less than 3:1	0	7	7	7	8	8	9	11	14	16	20	24	28	33	38	44	50	64	81	99	100									
	3:1 to 10:1	0	7	7	8	8	9	11	13	16	19	23	27	32	37	42	48	55	69	85	100										
	over 10:1	0	7	8	9	10	12	16	21	25	30	36	41	47	53	59	66	73	88	100											
500	Less than 3:1	0	7	7	7	7	8	9	10	12	14	16	19	22	25	29	33	37	47	59	71	100									
	3:1 to 10:1	0	7	7	7	8	8	10	12	14	16	19	22	25	29	33	37	41	52	63	76	100									
	over 10:1	0	7	7	8	9	11	14	18	22	25	30	34	38	43	48	53	58	70	82	96	100									
1 000	Less than 3:1	0	7	7	7	7	7	8	9	10	12	13	14	16	18	20	22	27	33	39	58	82	100								
	3:1 to 10:1	0	7	7	7	7	8	9	10	11	12	14	15	17	19	21	23	26	31	37	43	63	86	100							
	over 10:1	0	7	7	8	8	9	11	13	16	19	21	24	27	30	33	36	39	46	53	60	82	100								
2 000	Less than 3:1	0	7	7	7	7	7	7	8	8	9	9	10	11	12	13	14	15	17	20	23	33	44	58	74	93	100				
	3:1 to 10:1	0	7	7	7	7	7	7	8	8	9	9	10	11	12	13	14	15	17	20	23	27	37	49	63	79	97	100			
	over 10:1	0	7	7	7	8	8	9	11	12	14	16	18	19	21	21	23	25	27	32	36	40	53	66	82	99	100				

Note to Table 3.2.3.1.A.:

(1) Apply whichever is greater,  
 L = Length of exposing building face,  
 H = Height of exposing building face

Table 3.2.3.1.B.

## Unprotected Opening Limits for a Building or Fire Compartment that is not Sprinklered

Forming Part of Article 3.2.3.1.

Exposing Building Face		Area of Unprotected Openings for Groups E and F, Division 1 and 2 Occupancies, %																															
Maximum Area, m <sup>2</sup>	Ratio (L/H or H/L) <sup>(1)</sup>	Limiting Distance, m																															
		0	1.2	1.5	2.0	2.5	3	4	5	6	7	8	9	10	11	12	13	14	16	18	20	25	30	35	40	45	50	55	60	65	70		
10	Less than 3:1	0	4	5	9	15	23	46	77	100																							
	3:1 to 10:1	0	4	6	10	17	25	48	79	100																							
	over 10:1	0	5	9	16	24	34	58	91	100																							
15	Less than 3:1	0	4	5	7	11	16	32	53	79	100																						
	3:1 to 10:1	0	4	5	8	13	18	34	55	82	100																						
	over 10:1	0	5	8	13	19	26	43	66	93	100																						
20	Less than 3:1	0	4	4	6	9	13	25	40	61	85	100																					
	3:1 to 10:1	0	4	5	7	11	15	27	43	63	87	100																					
	over 10:1	0	5	7	11	17	22	36	53	74	99	100																					
25	Less than 3:1	0	4	4	6	8	11	20	33	49	69	92	100																				
	3:1 to 10:1	0	4	5	7	9	13	22	35	51	71	94	100																				
	over 10:1	0	4	6	10	15	20	31	45	62	82	100																					
30	Less than 3:1	0	4	4	5	7	10	18	28	42	58	77	100																				
	3:1 to 10:1	0	4	4	6	9	12	20	30	44	60	80	100																				
	over 10:1	0	4	6	10	14	18	28	40	54	71	91	100																				
40	Less than 3:1	0	4	4	5	6	8	14	22	32	44	59	76	94	100																		
	3:1 to 10:1	0	4	4	6	8	10	16	24	34	47	61	78	97	100																		
	over 10:1	0	4	5	8	12	15	23	33	44	57	72	89	100																			
50	Less than 3:1	0	4	4	5	6	7	12	18	26	36	48	61	76	93	100																	
	3:1 to 10:1	0	4	4	5	7	9	14	20	29	38	50	63	79	95	100																	
	over 10:1	0	4	5	8	11	14	21	29	38	48	61	74	90	100																		
60	Less than 3:1	0	4	4	4	5	7	11	16	23	31	40	52	64	78	94	100																
	3:1 to 10:1	0	4	4	5	6	8	12	18	25	33	43	54	66	81	96	100																
	over 10:1	0	4	5	7	10	13	19	26	34	43	53	64	77	92	100																	
80	Less than 3:1	0	4	4	4	5	6	9	13	18	24	31	40	49	60	71	84	98	100														
	3:1 to 10:1	0	4	4	5	6	7	10	15	20	26	33	42	51	62	74	86	100															
	over 10:1	0	4	5	6	9	11	16	22	28	35	43	52	62	73	85	98	100															
100	Less than 3:1	0	4	4	4	5	5	8	11	15	20	26	32	40	48	58	68	79	100														
	3:1 to 10:1	0	4	4	4	5	6	9	13	17	22	28	35	42	51	60	70	81	100														
	over 10:1	0	4	4	6	8	10	14	19	25	31	37	44	52	61	71	81	92	100														
150	Less than 3:1	0	4	4	4	4	5	6	8	11	14	18	23	28	33	40	46	54	70	89	100												
	3:1 to 10:1	0	4	4	4	5	6	8	10	13	16	20	25	30	36	42	49	56	73	92	100												
	over 10:1	0	4	4	5	7	8	12	16	20	24	29	34	39	46	52	59	67	84	100													
250	Less than 3:1	0	4	4	4	4	4	5	7	8	10	12	15	18	22	25	29	34	44	55	68	100											
	3:1 to 10:1	0	4	4	4	4	5	6	8	10	12	14	17	20	24	27	32	36	46	57	70	100											
	over 10:1	0	4	4	5	6	7	9	12	15	18	21	25	28	32	37	41	46	56	68	81	100											
350	Less than 3:1	0	4	4	4	4	4	5	6	7	8	10	12	14	16	19	22	25	32	40	49	77	100										
	3:1 to 10:1	0	4	4	4	4	4	5	7	8	10	12	14	16	18	21	24	27	34	43	52	79	100										
	over 10:1	0	4	4	4	5	6	8	10	13	15	18	21	23	26	30	33	36	44	53	62	90	100										
500	Less than 3:1	0	4	4	4	4	4	4	5	6	7	8	9	11	13	14	16	19	24	29	36	55	78	100									
	3:1 to 10:1	0	4	4	4	4	4	4	5	6	7	8	9	11	13	14	16	18	21	26	31	38	57	80	100								
	over 10:1	0	4	4	4	4	5	5	7	9	11	13	15	17	19	21	24	26	29	35	41	48	68	92	100								
1 000	Less than 3:1	0	4	4	4	4	4	4	4	5	5	6	6	7	8	9	10	11	14	16	20	29	41	55	71	89	100						
	3:1 to 10:1	0	4	4	4	4	4	4	4	5	5	6	7	8	9	10	11	12	13	15	18	22	31	43	57	73	91	100					
	over 10:1	0	4	4	4	4	4	5	6	7	8	9	11	12	13	15	16	18	20	23	26	30	41	53	68	84	100						
2 000	Less than 3:1	0	4	4	4	4	4	4	4	4	4	5	5	5	6	6	7	7	9	10	12	16	22	29	37	46	56	68	80	94	100		
	3:1 to 10:1	0	4	4	4	4	4	4	4	4	5	5	5	6	6	7	7	8	9	10	12	13	18	24	31	39	49	59	70	83	96	100	
	over 10:1	0	4	4	4	4	4	4	5	5	6	7	8	9	10	11	12	13	14	16	18	20	26	33	41	50	59	70	81	94	100		

## Note to Table 3.2.3.1.B.:

<sup>(1)</sup> Apply whichever is greater,

L = Length of exposing building face,

H = Height of exposing building face



Table 3.2.3.1.C.

## Unprotected Opening Limits for a Building or Fire Compartment that is Sprinklered

Forming Part of Article 3.2.3.1.

Exposing Building Face	Area of Unprotected Opening for Groups A, B, C, D and F, Division 3, Occupancies, %											
Maximum Area, m <sup>2</sup>	Limiting Distance, m											
	0	1.2	1.5	2.0	2.5	3	4	5	6	7	8	9
10	0	16	24	42	66	100						
15	0	16	20	34	50	74	100					
20	0	16	20	30	42	60	100					
25	0	16	18	26	38	52	90	100				
30	0	14	18	24	34	46	78	100				
40	0	14	16	22	30	40	64	96	100			
50	0	14	16	20	28	36	56	82	100			
60	0	14	16	20	26	32	50	72	98	100		
80	0	14	16	18	22	28	42	58	80	100		
100	0	14	16	18	22	26	36	50	68	88	100	
150 or more	0	14	14	16	20	22	30	40	52	66	82	100

Table 3.2.3.1.D.

## Unprotected Opening Limits for a Building or Fire Compartment that is Sprinklered

Forming Part of Article 3.2.3.1.

Exposing Building Face	Area of Unprotected Opening for Groups E and F, Division 1 and 2, Occupancies, %																	
Maximum Area, m <sup>2</sup>	Limiting Distance, m																	
	0	1.2	1.5	2.0	2.5	3	4	5	6	7	8	9	10	11	12	13	14	15
10	0	10	12	20	34	15	96	100										
15	0	8	10	16	26	36	68	100										
20	0	8	10	14	22	30	54	86	100									
25	0	8	10	14	18	26	44	70	100									
30	0	8	8	12	18	24	40	60	88	100								
40	0	8	8	12	16	20	32	48	68	94	100							
50	0	8	8	10	14	18	28	40	58	76	100							
60	0	8	8	10	12	16	24	36	50	66	86	100						
80	0	8	8	10	12	14	20	30	40	52	66	84	100					
100	0	8	8	8	10	12	18	26	34	44	56	70	84	100				
150	0	8	8	8	10	12	16	20	26	32	40	50	60	72	84	98	100	
200 or more	0	8	8	8	8	10	14	18	22	28	34	42	50	60	68	80	92	100

(4) For the purpose of determining the actual percentage of *unprotected openings* permitted in an exterior wall, the location of the *exposing building face* is permitted to be taken at a vertical plane located so that there are no *unprotected openings* between the vertical plane and the line to which the *limiting distance* is measured.

(5) If a *building* has any *storey* that is not *sprinklered* and fire fighting facilities cannot reach it within 10 min of the alarm being received, the required *limiting distance* shall be doubled.

(6) If the surface temperature on the unexposed surface of a wall assembly exceeds the temperature limit of a standard fire test as permitted by Article 3.1.7.2., an allowance shall be made for the radiation from the hot unexposed wall surface by adding an equivalent area of *unprotected opening* to the area of actual openings as follows:

$$A_c = A + (A_F \times F_{EO})$$

where

$A_c$  = corrected area of *unprotected openings* including actual and equivalent openings,

$A$  = actual area of *unprotected openings*,

$A_F$  = area of exterior surface of the *exposing building face* exclusive of openings on which the temperature limit of the standard test is exceeded, and

$F_{EO}$  = an equivalent opening factor derived from the following expression:

$$F_{EO} = \frac{(T_u + 273)^4}{(T_e + 273)^4}$$

where

$T_u$  = average temperature in degrees Celsius of the unexposed wall surface at the time the required *fire-resistance rating* is reached under test conditions,

$T_e$  = 892°C for a *fire-resistance rating* not less than 45 min, 927°C for a *fire-resistance rating* not less than 1 h, and 1 010°C for a *fire-resistance rating* not less than 2 h.

(7) Unless a *closure* used to protect an opening in an *exposing building face* has a protective performance equivalent to that required for the wall assembly in which it is located, an equivalent area of *unprotected opening*, determined in accordance with the procedures of Sentence (6) shall be added to the greater of

- (a) the actual area of *unprotected openings*, or
- (b) the corrected area of *unprotected openings*.

(8) The required *limiting distance* for an *exposing building face* is permitted to be measured to a point beyond the property line that is not the centre line of a *street*, lane or public thoroughfare if

- (a) the owners of the properties on which the *limiting distance* is measured and the *municipality* enter into an agreement in which such owners agree that
  - (i) each owner covenants that, for the benefit of land owned by the other covenantors, the owner will not *construct a building* on his or her property unless the *limiting distance* for *exposing building faces* in respect of the proposed *construction* is measured in accordance with the agreement,
  - (ii) the covenants contained in the agreement are intended to run with the lands, and the agreement shall be binding on the parties and their respective heirs, executors, administrators, successors and assigns,
  - (iii) the agreement shall not be amended or deleted from title without the consent of the *municipality*, and
  - (iv) they will comply with such other conditions as the *municipality* considers necessary, including indemnification of the *municipality* by the other parties, and
- (b) the agreement referred to in Clause (a) is registered against the title of the properties to which it applies.

(9) Where an agreement referred to in Sentence (8) is registered against the title of a property, the *limiting distance* for *exposing building faces* shall be measured to the point referred to in the agreement.

### 3.2.3.2. Area of Exposing Building Face

(1) Except as permitted by Sentences (2), (4), (6) and (7), the area of an *exposing building face* shall be calculated as the total area of exterior wall facing in one direction on any side of a *building* measured from the finished ground level to the uppermost ceiling.

(2) Except as permitted by Sentence (3), if a *building* containing only Group A, B, C, D or Group F, Division 3 *occupancies* is divided by *fire separations* into *fire compartments*, the area of *exposing building*

*face* is permitted to be calculated for each *fire compartment* provided the *fire separations* have a *fire-resistance rating* not less than 1 h.

(3) The *fire-resistance rating* of the *fire separations* referred to in Sentence (2) is permitted to be less than 1 h but not less than 45 min provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

- (a) the floor assembly above the *fire compartment*, or
- (b) the floor assembly below the *fire compartment*, if there is no floor assembly above.

(4) Except as required by Sentence (5), if a *building* containing Group E or Group F, Division 1 or 2 *occupancies* is divided by *fire separations* into *fire compartments*, the area of *exposing building face* is permitted to be calculated for each *fire compartment* provided the *fire separations* have a *fire-resistance rating* not less than 45 min.

(5) The *fire-resistance rating* of the *fire separations* referred to in Sentence (4) shall be not less than that required by Subsection 3.2.2. for

- (a) the floor assembly above the *fire compartment*, or
- (b) the floor assembly below the *fire compartment*, if there is no floor assembly above.

(6) For the purposes of Sentence (1), where a horizontal *fire separation* is penetrated by openings that are not provided with *closures*, and the openings are in conformance with Article 3.2.8.2., the *fire separation* is permitted to be considered as enclosing construction for the purposes of determining *fire compartments*.

(7) For the purposes of Sentence (1), where an *interconnected floor space* is in conformance with Articles 3.2.8.3. to 3.2.8.11., each *storey* in the *interconnected floor space* is permitted to be considered a *fire compartment*.

### 3.2.3.3. Wall Enclosing Attic or Roof Space

(1) An exterior wall enclosing an *attic* or *roof space* and located above an *exposing building face*, shall be constructed in conformance with the requirements for the *exposing building face*.

### 3.2.3.4. Party Wall

- (1) A *party wall* shall be constructed as a *firewall*.

### 3.2.3.5. Wall with Limiting Distance less than 1.2 m

(1) Openings in a wall that has a *limiting distance* less than 1.2 m shall be protected by *closures* whose *fire-protection rating* is in conformance with the *fire-resistance rating* required for the wall.

(2) Wired glass or glass block shall not be used for a *closure* referred to in Sentence (1).

### 3.2.3.6. Combustible Projections

(1) Except for a *building* containing one or 2 *dwelling units* only, *combustible* projections on the exterior of a wall that could expose an adjacent *building* to fire spread and are more than 1 000 mm above ground level, including balconies, platforms, *canopies*, eave projections and stairs, shall not be permitted within

- (a) 1 200 mm of a property line or the centreline of a *public way*, or
- (b) 2 400 mm of a *combustible* projection on another *building* on the same property.



**3.2.3.7. Construction of Exposing Building Face**

(1) Except as permitted by Articles 3.2.3.9. and 3.2.3.10., if a *limiting distance* shown in Table 3.2.3.1.A. or Table 3.2.3.1.C. for a Group A, B, C, D or Group F, Division 3 *occupancy* classification permits an *exposing building face* to have *unprotected openings* not more than 10% of the *exposing building face*, the *exposing building face* shall be

- (a) of *noncombustible construction* having a *fire-resistance rating* not less than 1 h, and
- (b) clad with *noncombustible cladding*.

(2) Except as permitted by Sentence (9) and Articles 3.2.3.9. and 3.2.3.10., if a *limiting distance* shown in Table 3.2.3.1.A. or Table 3.2.3.1.C. for a Group A, B, C, D or Group F, Division 3 *occupancy* classification permits an *exposing building face* to have *unprotected openings* more than 10% but not more than 25% of the *exposing building face*, the *exposing building face* shall

- (a) have a *fire-resistance rating* not less than 1 h, and
- (b) be clad with *noncombustible cladding*.

(3) Except as permitted by Articles 3.2.3.9. and 3.2.3.10., if a *limiting distance* shown in Table 3.2.3.1.A. or Table 3.2.3.1.C. for a Group A, B, C, D or Group F, Division 3 *occupancy* classification permits an *exposing building face* to have *unprotected openings* more than 25% but less than 100% of the *exposing building face*, the *exposing building face* shall have a *fire-resistance rating* not less than 45 min.

(4) Except as permitted by Article 3.2.3.9., if a *limiting distance* shown in Table 3.2.3.1.B. or Table 3.2.3.1.D. for a Group E, or Group F, Division 1 or 2 *occupancy* classification permits an *exposing building face* to have *unprotected openings* not more than 10% of the *exposing building face*, the *exposing building face* shall be

- (a) of *noncombustible construction* having a *fire-resistance rating* not less than 2 h, and
- (b) clad with *noncombustible cladding*.

(5) Except as permitted by Sentence (9) and Article 3.2.3.9., if a *limiting distance* shown in Table 3.2.3.1.B. or Table 3.2.3.1.D. for a Group E, or Group F, Division 1 or 2 *occupancy* classification permits an *exposing building face* to have *unprotected openings* more than 10% but not more than 25% of the *exposing building face*, the *exposing building face* shall

- (a) have a *fire-resistance rating* not less than 2 h, and
- (b) be clad with *noncombustible cladding*.

(6) Except as permitted by Article 3.2.3.9., if a *limiting distance* shown in Tables 3.2.3.1.B. or Table 3.2.3.1.D. for a Group E, or Group F, Division 1 or 2 *occupancy* classification permits an *exposing building face* to have *unprotected openings* more than 25% but less than 100% of the *exposing building face*, the *exposing building face* shall have a *fire-resistance rating* not less than 1 h.

(7) Except as permitted by Sentence (9), in addition to the requirements of Sentences (2), (3), (5) and (6), foamed plastic insulation used in an exterior wall of a *building* more than 3 *storeys* in *building height* shall be protected on its exterior surface by

- (a) concrete or masonry not less than 25 mm thick, or

(b) *noncombustible* material that complies with the criteria for testing and conditions of acceptance of Sentence (8) when tested in conformance with CAN/ULC-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials".

(8) The criteria for testing and the conditions of acceptance for a wall assembly to satisfy the requirements of Clause (7)(b) are that

- (a) the fire exposed area of the wall assembly shall be not less than 9.3 m<sup>2</sup> and have no dimension less than 2 750 mm,
- (b) the exposed surface will include typical vertical and horizontal joints,
- (c) the test shall be continued for not less than 15 min and the standard time/temperature curve of the referenced standard shall be followed,
- (d) the *noncombustible* protective material will remain in place and no through openings will develop that are visible when viewed normal to the face of the material, and
- (e) the *noncombustible* protective material will not disintegrate in a manner that would permit fire to propagate along the surface of the test assembly.

(9) The requirements of Clauses (2)(b) and (5)(b) and Sentence (7) are waived for a wall assembly that complies with the requirements of Article 3.1.5.5.

**3.2.3.8. Protection of Structural Members**

(1) Structural members, including beams, columns and arches, placed wholly or partly outside an exterior face of a *building* and 3 m or more from the property line or centreline of a public thoroughfare need not be protected from exterior fires.

(2) Structural members referred to in Sentence (1) that are less than 3 m from the property line or centreline of a public thoroughfare shall be protected from exterior fire by fire protection having a *fire-resistance rating* not less than that required by Articles 3.2.2.20. to 3.2.2.83. for their protection from interior fires, but not less than 1 h.

(3) Structural members of *heavy timber construction*, including beams, columns and arches, placed wholly or partly outside an exterior face of a *building* and 3 m or more from the property line or centreline of a public thoroughfare need not be covered with *noncombustible cladding*.

**3.2.3.9. Unlimited Unprotected Openings**

(1) An *exposing building face* of an *open-air storey* in a *storage garage* is permitted to have unlimited *unprotected openings* provided it has a *limiting distance* not less than 3 m.

(2) The *exposing building face* of a *storey* that faces a *street* and is at the same level as the *street* is permitted to have unlimited *unprotected openings* if the *limiting distance* is not less than 9 m.

**3.2.3.10. Low Fire Load, One Storey Building**

(1) An *exposing building face* of a *building* of *low hazard industrial occupancy* conforming to Article 3.2.2.82. is permitted to be of *noncombustible construction* without a *fire-resistance rating* provided

- (a) it is not a *loadbearing wall*, and
- (b) the *limiting distance* is not less than 3 m.



**3.2.3.11. Area Increase for Unprotected Openings**

(1) The maximum area of *unprotected openings* in any *exposing building face* is permitted to be doubled if the openings are glazed with

- (a) glass block conforming to the requirements of Article 3.1.8.14., or
- (b) wired glass assemblies conforming to the Supplementary Guidelines.

**3.2.3.12. Protection of Exit Facilities**

(1) Except as required by Sentence (3) and as permitted by Sentence 3.4.4.3.(1), if the plane of an exterior wall of an *exit* enclosure forms an angle less than 135° with the plane of an exterior wall of the *building* it serves, and an opening in the exterior wall of the *exit* enclosure could be exposed to fire from an opening in the exterior wall of the *building*, the opening in either the exterior wall of the *exit* or the exterior wall of the *building* shall be protected in conformance with the requirements of Sentence (4) where the opening in the exterior wall of the *building* is within 3 m horizontally and

- (a) less than 10 m below an opening in the exterior wall of the *exit*, or
- (b) less than 2 m above an opening in the exterior wall of the *exit*.

(2) If an unenclosed exterior *exit* stair or ramp could be exposed to fire from an opening in the exterior wall of the *building* it serves, the opening in the exterior wall of the *building* shall be protected in conformance with the requirements of Sentence (4) where the opening in the exterior wall of the *building* is within 3 m horizontally and

- (a) less than 10 m below the *exit* stair or ramp, or
- (b) less than 5 m above the *exit* stair or ramp.

(3) Except as permitted by Sentence 3.4.4.3.(1), if an exterior *exit* door in one *fire compartment* is within 3 m horizontally of an opening in another *fire compartment* and the exterior walls of these *fire compartments* intersect at an exterior angle of less than 135°, the opening shall be protected in conformance with the requirements of Sentence (4).

(4) The opening protection referred to in Sentences (1), (2) and (3) shall consist of

- (a) glass block conforming to the requirements of Article 3.1.8.14.,
- (b) a wired glass assembly conforming to the Supplementary Guidelines, or
- (c) a *closure* conforming to the requirements of Subsection 3.1.8. and Articles 3.2.3.1. and 3.2.3.13.

**3.2.3.13. Wall Exposed to Another Wall**

(1) Except as required by Sentences (3) and 3.2.3.12.(1) or as permitted by Sentence 3.2.3.18.(4), if an *unprotected opening* in an exterior wall of a *fire compartment* is exposed to an *unprotected opening* in the exterior wall of another *fire compartment*, and the planes of the 2 walls are parallel or at an angle less than 135°, measured from the exterior of the *building*, the *unprotected openings* in the 2 *fire compartments* shall be separated by a distance not less than  $D_0$  where  $D_0 = 2D - \{(\theta/90) \times D\}$  but in no case less than 1 000 mm, and

$D$  = the greater required *limiting distance* for the *exposing building faces* of the 2 *fire compartments*, and

$\theta$  = the angle made by the intersecting planes of the *exposing building faces* of the 2 *fire compartments* (in the case where the exterior walls are parallel and face each other,  $\theta = 0^\circ$ ).

(2) The exterior wall of each *fire compartment* referred to in Sentence (1) within the distance,  $D_0$ , shall have a *fire-resistance rating* not less than that required for the interior vertical *fire separation* between the *fire compartment* and the remainder of the *building*.

(3) Sentence (1) does not apply to *unprotected openings* of *fire compartments* within a *building* that is *sprinklered*, but shall apply to

- (a) *unprotected openings* of *fire compartments* on opposite sides of a *firewall*, and
- (b) exposure from *unprotected openings* of a *fire compartment* that is not protected by an automatic sprinkler system.

**3.2.3.14. Wall Exposed to Adjoining Roof**

(1) Except as permitted by Sentence 3.2.3.18.(4), if a wall in a *building* is exposed to a fire hazard from an adjoining roof of a separate *fire compartment* that is not *sprinklered* in the same *building*, and the exposed wall contains windows within 3 *storeys* vertically and 5 m horizontally of the roof, the roof shall contain no skylights within 5 m of the exposed wall.

**3.2.3.15. Protection of Soffits**

(1) Except as permitted by Sentences (2) and (3), where a common *attic* or *roof space* spans more than 2 *suites* of *residential occupancy* or more than 2 patients' or residents' sleeping rooms in a Group B, Division 2 or Division 3 *occupancy*, and the common *attic* or *roof space* projects beyond the exterior wall of the *building*, the portion of any soffit or other surface enclosing the projection which is less than 2 500 mm vertically above a window or door and less than 1 200 mm from either side of the window or door, shall have no openings and shall be protected by

- (a) *noncombustible* material
  - (i) not less than 0.38 mm thick, and
  - (ii) having a melting point not below 650°C,
- (b) not less than 12.7 mm thick gypsum soffit board or gypsum wallboard installed according to CSA A82.31-M, "Gypsum Board Application",
- (c) not less than 11 mm thick plywood,
- (d) not less than 12.5 mm thick OSB or waferboard, or
- (e) not less than 11 mm thick lumber.

(2) Where an *attic* or *roof space*, including its adjoining eave overhangs, is separated by construction conforming to Article 3.1.11.7. into compartments such that the resulting spaces are not common to more than 2 *suites* of *residential occupancy* or more than 2 patients' or residents' sleeping rooms in a Group B, Division 2 or Division 3 *occupancy*, the requirements in Sentence (1) do not apply.

(3) If an eave overhang is completely separated from the remainder of the *attic* or *roof space* by fire stopping, the requirements of Sentence (1) do not apply.

(4) The protection required by Sentence (1) for projections is permitted to be omitted if

- (a) the *fire compartments* behind the window and door openings are *sprinklered* in accordance with Article 3.2.5.13., and
- (b) all rooms, including closets and bathrooms, having openings in the wall beneath the soffit are *sprinklered*, notwithstanding exceptions permitted in the standards referenced in Article 3.2.5.13. for the installation of automatic sprinkler systems.

### 3.2.3.16. Canopy Protection for Vertically Separated Openings

(1) Except as permitted by Sentences (2) and (3), if a *storey* classified as a Group E or Group F, Division 1 or 2 *major occupancy* is required to be separated from the *storey* above by a *fire separation*

- (a) every opening in the exterior wall of the lower *storey* that is located vertically below an opening in the *storey* above shall be separated from the *storey* above by a *canopy* projecting not less than 1 000 mm from the face of the *building* at the intervening floor level, and
- (b) the *canopy* required by Clause (a) shall have a *fire-resistance rating* not less than that required for the floor assembly but need not be more than 1 h, except as required elsewhere in this Subsection.

(2) Except as permitted by Sentence (3), the *canopy* required by Sentence (1) is permitted to be omitted if the exterior wall of the upper *storey* is recessed not less than 1 000 mm behind the exterior wall containing the opening in the lower *storey*.

(3) The requirements of Sentences (1) and (2) are permitted to be waived if sprinklers are installed in

- (a) the lower *storey* referred to in Clause (1)(a), and
- (b) the *storey* immediately above the lower *storey*.

### 3.2.3.17. Covered Vehicular Passageway

(1) A covered vehicular passageway designed as a receiving or shipping area shall be separated from every *building* or part of a *building* adjoining it by a *fire separation* having a *fire-resistance rating* not less than 1.5 h.

(2) A covered vehicular passageway constructed below *grade* shall be of *noncombustible construction*.

### 3.2.3.18. Walkway between Buildings

(1) Except as required by Sentence 3.2.3.19.(2), if *buildings* are connected by a *walkway*, each *building* shall be separated from the *walkway* by a *fire separation* with a *fire-resistance rating* not less than 45 min.

(2) Except as permitted by Sentence (3), a *walkway* connected to a *building* required to be of *noncombustible construction* shall also be of *noncombustible construction*.

(3) A *walkway* connected to a *building* required to be of *noncombustible construction* is permitted to be of *heavy timber construction* provided

- (a) not less than 50% of the area of any enclosing perimeter walls is open to the outdoors, and
- (b) the *walkway* is at ground level.

(4) A *walkway* of *noncombustible construction* used only as a pedestrian thoroughfare need not conform to the requirements of Articles 3.2.3.13. and 3.2.3.14.

(5) A *walkway* between *buildings* shall be not more than 9 m wide.

### 3.2.3.19. Underground Walkway

(1) An underground *walkway* shall not be designed or used for any purpose other than pedestrian travel unless

- (a) the purpose is permitted, and
- (b) sprinklers are installed in any space in the *walkway* containing an *occupancy*.

(2) *Buildings* connected by an underground *walkway* shall be separated from the *walkway* by a *fire separation* with a *fire-resistance rating* not less than 1 h.

(3) An underground *walkway* shall be of *noncombustible construction* suitable for an underground location.

(4) In an underground *walkway*

- (a) smoke barrier doors shall be installed at intervals of not more than 100 m, or
- (b) the travel distance from the door of an adjacent room or space to the nearest *exit* shall be not more than one and a half times the least allowable travel distance to an *exit* for any of the adjacent *occupancies* as permitted by Sentence 3.4.2.5.(1).

(5) An underground *walkway* between *buildings* shall be not more than 9 m wide.

### 3.2.4. Fire Alarm and Detection Systems

#### 3.2.4.1. Determination of Requirement for a Fire Alarm System

(1) Reserved

(2) Except as permitted by Sentences (3) to (5) and Sentence 3.2.4.2.(4), a fire alarm system shall be installed in a *building* that contains

- (a) a *contained use area*,
- (b) an *impeded egress zone*,
- (c) more than 3 *storeys*, including *storeys* below *grade*,
- (d) a total *occupant load* more than 300, other than in open air seating areas,
- (e) an *occupant load* more than 150 above or below the *first storey*, other than in open air seating areas,
- (f) a school, college, or child care facility, with an *occupant load* more than 40,
- (g) a licensed beverage establishment or a restaurant, with an *occupant load* more than 150,
- (h) a *medium hazard industrial occupancy* or a *low hazard industrial occupancy* with an *occupant load* more than 75 above or below the *first storey*,
- (i) a *residential occupancy* with sleeping accommodation for more than 10 persons,



- (j) a *high hazard industrial occupancy* with an *occupant load* more than 25,
  - (k) an *occupant load* more than 300 below an open air seating area,
  - (l) an *interconnected floor space* required to conform to Articles 3.2.8.3. to 3.2.8.11,
  - (m) a *care and treatment occupancy* for more than 10 persons receiving care or treatment, or
  - (n) a *care occupancy* for more than 10 persons receiving care.
- (3) If each *dwelling unit* has direct access to an exterior *exit* facility leading to ground level, a fire alarm system is not required in an apartment *building*
- (a) in which not more than 4 *dwelling units* share a common *means of egress*, or
  - (b) which is not more than 3 *storeys* in *building height*.

(4) A fire alarm system is not required in a *hotel* 3 *storeys* or less in *building height* provided each *suite* has direct access to an exterior *exit* facility leading to ground level.

(5) A fire alarm system is not required in a *storage garage* conforming to Article 3.2.2.83. provided there are no other *occupancies* in the *building*.

#### 3.2.4.2. Continuity of Fire Alarm System

(1) If there are openings through a *firewall*, other than those for piping, tubing, wiring and totally enclosed *noncombustible* raceways, the requirements in this Subsection shall apply to the *floor areas* on both sides of the *firewall* as if they were in the same *building*.

(2) Except as permitted by Sentence (4), if a *building* contains more than one *major occupancy* and a fire alarm system is required, a single system shall serve all *occupancies*.

(3) Except as permitted by Sentence (4), if a fire alarm system is required in any portion of a *building*, it shall be installed throughout the *building*.

(4) Except as required by Sentence (5), the requirements in this Subsection are permitted to be applied to each portion of a *building* not more than 3 *storeys* in *building height*, in which a vertical *fire separation* having a *fire-resistance rating* not less than 1 h separates the portion from the remainder of the *building* as if it were a separate *building*, provided there are no openings through the *fire separation*, other than those for piping, tubing, wiring and totally enclosed *noncombustible* raceways.

(5) The permission in Sentence (4) to consider separated portions of a *building* as separate *buildings* does not apply to *service rooms* and *storage rooms*.

#### 3.2.4.3. Types of Fire Alarm Systems

- (1) A fire alarm system shall be
  - (a) a single stage system in a Group F, Division 1 *occupancy*,
  - (b) a 2 stage system in a Group B *occupancy* other than those described in Clause (c),

- (c) a single or 2 stage system in a *building* 3 *storeys* or less in *building height* which contains a Group B, Division 3 *occupancy*,
- (d) a single stage system in elementary and secondary schools, except for a special needs facility, and
- (e) a single or 2 stage system in all other cases.

#### 3.2.4.4. Description of Fire Alarm Systems

(1) A single stage fire alarm system shall, upon the operation of any manual pull station or *fire detector*, cause an *alarm signal* to sound on all audible signal devices in the system.

(2) A 2 stage fire alarm system shall

- (a) cause an *alert signal* to sound upon the operation of any manual pull station or *fire detector*,
- (b) except for a Group B, Division 2 *occupancy*, automatically cause an *alarm signal* to sound if the *alert signal* is not acknowledged within 5 min of its initiation,
- (c) have each manual pull station equipped so that the use of a key or other similar device causes an *alarm signal* to sound and continue to sound upon the removal of the key or similar device from the manual pull station, and
- (d) in a *building* containing a *hotel*
  - (i) cause an *alarm signal* to sound in the initiating fire zone in the *hotel*, and
  - (ii) cause an *alert signal* to sound throughout the *hotel* and such parts of the *building* as is necessary to alert *hotel* staff.

(3) A 2 stage fire alarm system is permitted to be zone coded so that, upon the operation of any manual pull station or *fire detector*

- (a) a coded *alert signal* is sounded indicating the zone of alarm initiation,
- (b) the coded *alert signal* is repeated in its entirety not less than 4 times, and
- (c) a continuous *alert signal* is sounded upon completion of the coded signals referred to in Clause (b) and Sentence (4).

(4) If a second manual pull station or *fire detector* is operated in a fire alarm system with zone coding as permitted by Sentence (3), in a zone other than that for which the first *alert signal* was sounded, the coded *alert signal* for the first zone shall be completed before the coded *alert signal* for the second zone is repeated not less than 4 times.

#### 3.2.4.5. Installation and Testing of Fire Alarm Systems

(1) Fire alarm and voice communication systems shall be installed in conformance with CAN/ULC-S524-M, "Standard for the Installation of Fire Alarm Systems".

(2) A fire alarm system shall be tested in conformance with CAN/ULC-S537-M, "Standard for the Verification of Fire Alarm Systems", to ensure satisfactory operation.

#### 3.2.4.6. Silencing of Alarm Signals

(1) Except as permitted by Sentence (3), a fire alarm system shall be designed so that when an *alarm signal* is actuated, it cannot be silenced automatically before a period of time has elapsed that is not less than



(a) 5 min for a *building* not required to be equipped with an annunciator, and

(b) 20 min for any other *building*.

(2) Except as permitted by Sentences 3.2.4.19.(9), and 3.2.4.22.(2) and (3), a fire alarm system shall not incorporate manual silencing switches other than those installed inside the fire alarm control unit.

(3) Except as provided in Clause 3.2.4.22.(2)(a), in a *care and treatment occupancy* an *alert signal* is permitted to be silenced automatically after 1 min.

### 3.2.4.7. Signals to Fire Department

(1) If a fire alarm system is required to be installed and a single stage system is provided, the system shall be designed to notify the fire department in conformance with Sentence (4) that an *alarm signal* has been initiated in

(a) a Group A *occupancy* having an *occupant load* more than 300,

(b) a Group B *occupancy*,

(c) a Group F, Division 1 *occupancy*,

(d) a *building* regulated by the provisions of Subsection 3.2.6., or

(e) a *building* containing *interconnected floor space* required to conform to Articles 3.2.8.3. to 3.2.8.11.

(2) If a fire alarm system is installed, an automatic sprinkler system shall be designed to notify the fire department, in conformance with Sentence (4), that a waterflow switch has been actuated.

(3) If a fire alarm system is required to be installed and a 2 stage system is provided, the system shall be designed to notify the fire department, in conformance with Sentence (4), that an *alert signal* has been initiated.

(4) Except as permitted by Sentence (5), signals to the fire department shall be by way of

(a) an independent central station conforming to NFPA-71, "Standard for the Installation, Maintenance, and Use of Signaling Systems for Central Station Service",

(b) a proprietary control centre conforming to Chapter 4 of NFPA-72, "Standard for the Installation, Maintenance, and Use of Protective Signaling Systems",

(c) a central station conforming to ULC/ORD-C693-1994, "Central Station Fire Protective Signaling Systems and Services", or

(d) the municipal fire alarm system.

(5) If the facilities referred to in Sentence (4) are not available in the municipality in which the *building* is to be built, an independent system is permitted to be used to transmit signals to the fire department.

(6) If a single stage fire alarm system or a local group of sprinklers has been installed and Sentence (1) does not require provision to transmit a signal to the fire department, a legible notice, that is not easily removed, shall be affixed to the wall near each manual pull station with wording that the fire department is to be notified in the event of a fire emergency and including the emergency telephone number for the municipality or the telephone number of the fire department.

### 3.2.4.8. Annunciator and Zone Indication

(1) Except as permitted in Sentences (3) to (5), an annunciator shall be installed in close proximity to a *building* entrance that faces a *street* or an access route for fire department vehicles that complies with Sentence 3.2.5.5.(1).

(2) Except as permitted by Sentence (6), the annunciator required by Sentence (1) shall have separate zone indication of the actuation of the alarm initiating devices in each

(a) *floor area* so that in a *building* that is not *sprinklered*, the area of coverage for each zone is neither more than

(i) one *storey*, nor

(ii) 2 000 m<sup>2</sup>,

(b) *floor area* so that in a *building* that is *sprinklered*, the area of coverage for each zone is neither more than

(i) one *storey*, nor

(ii) the system area limits as specified in NFPA 13, "Standard for the Installation of Sprinkler Systems",

(c) shaft required to be equipped with *smoke detectors*,

(d) air handling system required to be equipped with *smoke detectors*,

(e) *contained use area*,

(f) *impeded egress zone*,

(g) *fire compartment* required in Sentence 3.3.3.5.(2), and

(h) *fire compartment* required to be separated by vertical *fire separations* having a *fire-resistance rating* not less than 2 h, other than *dwelling units* described in Subsection 3.3.4.

(3) An annunciator need not be provided for a fire alarm system if not more than one zone indicator is required in Sentence (2).

(4) If an annunciator is not installed as part of a fire alarm system in conformance with Sentence (1), a visual and audible trouble signal device shall be provided inside the main entrance of the *building*.

(5) The requirements in Sentence (1) are waived in a *building*

(a) Reserved

(b) that has an aggregate area for all *storeys* of not more than 2 000 m<sup>2</sup>, and

(c) that is not more than 3 *storeys* in *building height*.

(6) The area limits of Clause (2)(a) are waived for an interior undivided open space used as an arena, a rink or a swimming pool provided that other spaces in the *building* that are separated from the open space are individually zoned in accordance with the requirements of Sentence (2).

(7) Notwithstanding the requirements for an annunciator in this Article

(a) all fire alarm systems shall include a main control unit to which all signal and supervision circuits shall report, either directly or by means of transponders, and

- (b) each annunciator or trouble signal device shall be connected to the main control unit.

(8) Reserved

(9) In a *building* containing a *hotel* in which a trouble signal sounding device has a silencing switch, a trouble light shall be installed in

- (a) the main reception area serving the *hotel*, or
- (b) another continually-supervised location.

(10) In a nursing home, a remote audiovisual fire alarm trouble signal shall be located at the main nursing station.

### 3.2.4.9. Electrical Supervision

(1) Electrical supervision shall be provided for a fire alarm system.

(2) If a fire alarm system is installed in a *building*, an automatic sprinkler system shall be electrically supervised to indicate a supervisory signal on the *building* fire alarm system annunciator for each of the following:

- (a) movement of a valve handle that controls the supply of water to sprinklers,
- (b) loss of excess water pressure required to prevent false alarms in a wet pipe system,
- (c) loss of air pressure in a dry pipe system,
- (d) loss of air pressure in a pressure tank,
- (e) a significant change in water level in any water storage container used for fire fighting purposes,
- (f) loss of power to any automatically starting fire pump, and
- (g) a temperature approaching the freezing point in any dry pipe valve enclosure or water storage container used for fire fighting purposes.

### 3.2.4.10. Fire Detectors

(1) *Fire detectors* required by this Article shall be connected to the fire alarm system.

(2) Except as provided in Article 3.2.4.15., if a fire alarm system is required, *fire detectors* shall be installed in

- (a) storage rooms not within *dwelling units*,
- (b) service rooms not within *dwelling units*,
- (c) janitors' rooms,
- (d) rooms in which hazardous substances are to be used or stored,
- (e) elevator and dumbwaiter shafts,
- (f) a laundry room in a *building* of *residential occupancy*, but not one within a *dwelling unit*, and
- (g) *hazardous classrooms* and change rooms in elementary and secondary schools.

### 3.2.4.11. Smoke and Heat Detectors

(1) If a fire alarm system is required, *smoke detectors* shall be installed in

- (a) each sleeping room and each corridor serving as part of a *means of egress* from sleeping rooms in portions of a *building* classified as Group B *major occupancy*,
- (b) each room in a *contained use area* and corridors serving those rooms,
- (c) each corridor in portions of a *building* classified as Group A, Division 1 *major occupancy*,
- (d) each *public corridor* in portions of a *building* classified as Group C *major occupancy*,
- (e) each *exit* stair shaft, and
- (f) Reserved
- (g) each corridor serving classrooms in elementary and secondary schools.

(2) Except as provided in Article 3.2.4.15, if a fire alarm system is required, *heat detectors* shall be installed in

- (a) every room in portions of *buildings* classified as Group A, Division 1,
- (b) except in a *hotel*, in every *suite*, and every room not located within a *suite*, in portions of *buildings* classified as Group C *major occupancy* and more than 3 *storeys* in *building height*, and
- (c) in a *floor area* containing a *hotel*, in every room in a *suite* and in every room not located in a *suite* other than washrooms within a *suite*, saunas, refrigerated areas and swimming pools.

### 3.2.4.12. Prevention of Smoke Circulation

(1) If a fire alarm system is installed, an air handling system shall be designed to prevent the circulation of smoke upon a signal from a duct-type smoke detector if the air handling system

- (a) serves more than one *storey*,
- (b) serves more than one *suite* in a *storey*, or
- (c) serves more than one *fire compartment* required by Sentence 3.3.3.5.(2).

### 3.2.4.13. Vacuum Cleaning System Shutdown

(1) A central vacuum cleaning system in a *building* equipped with a fire alarm system shall be designed to shut down upon actuation of the fire alarm system.

### 3.2.4.14. Elevator Emergency Return

(1) Except as permitted by Sentence (3), in a *building* having elevators that serve *storeys* above the *first storey* and that are equipped with an automatic emergency recall feature, *smoke detectors* shall be installed in the elevator lobbies on the recall level so that when these *smoke detectors* are actuated, the elevators will automatically return directly to an alternate floor level.

(2) *Smoke detectors* required by Sentence (1) shall be designed as part of the *building* fire alarm system.



(3) The alternate floor recall feature required by Sentence (1) is not required if the *floor area* containing the recall level is *sprinklered*.

#### 3.2.4.15. Sprinklers in Lieu of Fire Detectors

(1) *Fire detectors* required by Article 3.2.4.10. and *heat detectors* required by Sentence 3.2.4.11.(2) need not be provided within a *floor area* if the *floor area* is *sprinklered* and the sprinkler system is electrically supervised in conformance with Sentence 3.2.4.9.(2).

#### 3.2.4.16. System Monitoring

(1) An automatic sprinkler system shall be equipped with waterflow detecting devices and, if an annunciator is required by Article 3.2.4.8., shall be installed so that each device serves

- (a) not more than one *storey*, and
- (b) an area on each *storey* that is not more than the system area limits as specified in NFPA 13, "Standard for the Installation of Sprinkler Systems".

(2) Waterflow detecting devices required by Sentence (1) shall be connected to initiate an *alert signal* or an *alarm signal* on the fire alarm system if a fire alarm is provided.

#### 3.2.4.17. Manual Pull Stations

(1) Except as permitted by Sentences (2) and (3), if a fire alarm system is installed, a manual pull station shall be installed

- (a) near the principal entrance to the *building*, and
- (b) near every required *exit*.

(2) In a *building* that is *sprinklered*, a manual pull station is not required at an exterior egress doorway from a *suite* that does not lead to an interior shared *means of egress* in a *hotel* not more than 3 *storeys* in *building height*, provided each *suite* is served by an exterior *exit* facility leading directly to ground level.

(3) In a *building* that is *sprinklered*, a manual pull station is not required at an exterior egress doorway from a *dwelling unit* that does not lead to an interior shared *means of egress* in a *building* not more than 3 *storeys* in *building height* containing only *dwelling units*, provided each *dwelling unit* is served by an exterior *exit* facility leading directly to ground level.

(4) In a *building* referred to in Sentences (2) or (3), manual pull stations shall be installed near doorways leading from shared interior corridors to the exterior.

(5) In a *building* containing a *hotel*, a manual pull station shall be installed in the main reception area serving the *hotel*.

(6) Except as permitted by Sentence (3), in Group C apartment *buildings*, if a pull station is not installed on a *floor area* in accordance with Sentences (1) or (4)

- (a) a manual pull station shall be installed in every *dwelling unit* in the *floor area* near each egress door leading from the *dwelling unit*,
- (b) *smoke detectors* shall be installed in the *floor area* in *public corridors* and stairwells, and
- (c) *fire detectors* shall be installed in the *floor area* in all common public areas and in rooms not located within *dwelling units*.

(7) In *floor areas* where the manual pull stations are located in *dwelling units*, a legible sign stating **FIRE ALARM PULL STATIONS LOCATED IN APARTMENT UNITS** shall be posted near every *exit* in a *public corridor*.

(8) Key switch activated pull stations are permitted in an *impeded egress zone* and a *contained use area* in Group B, Division 1 and Division 2 *occupancies*.

#### 3.2.4.18. Alert and Alarm Signals

(1) In a 2 stage fire alarm system described in Sentence 3.2.4.4.(2), the same audible signal devices are permitted to be used to sound the *alert signals* and the *alarm signals*.

(2) If audible signal devices with voice reproduction capabilities are intended for paging and similar voice message use, other than during a fire emergency, they shall be installed so that *alert signals* and *alarm signals* take priority over all other signals.

(3) Audible signal devices forming part of a fire alarm or voice communication system shall not be used for playing music or background noise.

(4) In a *building* or portion thereof intended for use primarily by persons with hearing impairment, visual signal devices shall be installed in addition to audible signal devices.

(5) Visual signal devices are permitted to be installed in lieu of audible signal devices in the compartments referred to in Article 3.3.3.6.

#### 3.2.4.19. Audibility of Alarm Systems

(1) Except as permitted in Sentence 3.2.4.18.(5), audible signal devices forming part of a fire alarm system shall be installed in a *building* so that *alert signals* and *alarm signals* are clearly audible throughout the *floor area* in which they are installed.

(2) The temporal pattern of an *alarm signal* shall conform to the temporal pattern defined in Clause 4.2 of International Standard ISO 8201, "Acoustics - Audible emergency evacuation signal".

(3) The signals from *smoke alarms* and the patterns of *alert signals* shall be sufficiently different from the signals or patterns of *alarm signals* that there is no possibility of confusion.

(4) Reserved

(5) The sound pressure level in a sleeping room from a fire alarm audible signal device shall be not less than 75 dBA in a *building* of *residential occupancy* when any intervening doors between the device and the sleeping room are closed.

(6) The sound pressure level from a fire alarm audible signal device in a *floor area* used for *occupancies* other than *residential occupancies* shall be not less than 10 dBA above the ambient noise level, but with a minimum value not less than 65 dBA.

(7) Fire alarm audible signal devices shall be supplemented by visual signal devices in any *floor area* in which

- (a) the ambient noise level is more than 87 dBA, or
- (b) the occupants of the *floor area*
  - (i) use ear protective devices,
  - (ii) are located within an audiometric booth, or



(iii) are located within sound insulated enclosures.

(8) Sentence (7) shall also apply in an *assembly occupancy* in which music and other sounds associated with performances could exceed 100 dBA.

(9) A fire alarm audible signal device located within a *dwelling unit* shall incorporate a means that enables the device to be silenced for a period of not more than 10 min, after which the device shall restore to normal operation.

(10) A fire alarm audible signal device located within a *dwelling unit* or a *suite of residential occupancy* shall be connected to the fire alarm system in a manner that disconnection of, or damage to, that device will not interfere with the ability of devices in other *dwelling units*, *public corridors*, or *suites* to sound an alarm.

(11) Reserved

(12) Fire alarm audible signal devices shall be installed in a *service space* referred to in Sentence 3.2.1.1.(7) and shall be connected to the fire alarm system.

### 3.2.4.20. Visual Signals

(1) Visual signal devices required by Sentences 3.2.4.18.(4) and 3.2.4.19.(7) and (8) shall be installed so that the signal from at least one device is visible throughout the *floor area* or portion thereof in which they are installed.

(2) In addition to the requirements for fire alarm and detection systems in this Subsection, visual signals from *smoke detectors* required in sleeping rooms of Group B *occupancy* shall be provided so that staff serving those rooms can easily identify the room or location of fire alarm initiation.

(3) Visual signal devices permitted by Sentence 3.2.4.18.(5) shall be installed so that the signal from not less than one device is visible throughout the compartment in which they are installed.

### 3.2.4.21. Smoke Alarms

(1) *Smoke alarms* conforming to CAN/ULC-S531-M, "Standard for Smoke-Alarms", shall be installed in each *dwelling unit* and, except for *care or detention occupancies* required to have a fire alarm system, in each sleeping room not within a *dwelling unit*.

(2) At least one *smoke alarm* shall be installed on each *storey* and *mezzanine* of a *dwelling unit*.

(3) On any *storey* of a *dwelling unit* containing sleeping rooms, a *smoke alarm* shall be installed in a location between the sleeping rooms and the remainder of the *storey*, and if the sleeping rooms are served by a hallway, the *smoke alarm* shall be located in the hallway.

(4) A *smoke alarm* shall be installed on or near the ceiling.

(5) A *smoke alarm* shall be installed with permanent connections to an electrical circuit and shall have no disconnect switches between the overcurrent device and the *smoke alarm*.

(6) If more than one *smoke alarm* is required in a *dwelling unit*, the *smoke alarms* shall be wired so that the actuation of one *smoke alarm* will cause all *smoke alarms* within the *dwelling unit* to sound.

(7) A *smoke alarm* required by Sentence (1) shall be installed in conformance with CAN/ULC-S553-M, "Standard for the Installation of Smoke-Alarms".

(8) A manually operated device is permitted to be incorporated within the circuitry of a *smoke alarm* installed in a *dwelling unit* so that it will silence the signal emitted by the *smoke alarm* for a period of not more than 10 min, after which the *smoke alarm* will reset and again sound the alarm if the level of smoke in the vicinity is sufficient to reactuate the *smoke alarm*.

### 3.2.4.22. Voice Communication Systems

(1) A voice communication system required by Subsection 3.2.6. shall consist of

- (a) a 2-way communication system in each *floor area*, with connections to the central alarm and control facility and to the mechanical control centre, and
- (b) loudspeakers operated from the central alarm and control facility which are designed and located so as to be audible and the messages intelligible in all parts of the *building*, except that this requirement does not apply to elevator cars.

(2) The voice communication system referred to in Sentence (1) shall include provision for silencing the *alarm signal* in a single stage fire alarm system when voice messages are being transmitted, but only after the *alarm signal* has sounded initially for not less than

- (a) 30 s in Group B, Division 2 or 3 *major occupancy*, and
- (b) 60 s in all other *occupancies*

(3) The voice communication system referred to in Sentence (1) shall include provision for silencing the *alert signal* and the *alarm signal* in a 2 stage fire alarm system when voice messages are being transmitted, but only after the *alert signal* has sounded initially for not less than

- (a) 30 s in Group B, Division 2 or 3 *major occupancy*, or
- (b) 60 s for all other *occupancies*.

(4) The voice communication system referred to in Clause (1)(b) shall be designed so that voice instructions can be transmitted selectively to any zone or zones while maintaining an *alert signal* or *alarm signal* to other zones in the *building*.

(5) The 2-way communication system referred to in Clause (1)(a) shall be installed so that emergency telephones are located in each *floor area* near *exit* stair shafts.

### 3.2.5. Provisions for Fire-fighting

#### 3.2.5.1. Access to Above Grade Storeys

(1) Except for *storeys* below the *first storey*, direct access for fire-fighting shall be provided from the outdoors to every *storey* that is not *sprinklered* and whose floor level is less than 25 m above *grade*, by at least one unobstructed window or access panel for each 15 m of wall in each wall required to face a *street* by Subsection 3.2.2.

(2) An opening for access required by Sentence (1) shall

- (a) have a sill no higher than 900 mm above the inside floor, and
- (b) be not less than 1 100 mm high by not less than
  - (i) 550 mm wide for a *building* not designed for the storage or use of dangerous goods, or
  - (ii) 750 mm wide for a *building* designed for the storage or use of dangerous goods.

(3) Access panels above the *first storey* shall be readily openable from both inside and outside, or the opening shall be glazed with plain glass.

### 3.2.5.2. Access to Basements

(1) Direct access from at least one *street* shall be provided from the outdoors to each *basement*

(a) that is not *sprinklered*, and

(b) that has horizontal dimension more than 25 m.

(2) The access required by Sentence (1) is permitted to be provided by

(a) doors, windows or other means that provide an opening not less than 1 100 mm high and 550 mm wide, with a sill no higher than 900 mm above the inside floor, or

(b) an interior stairway immediately accessible from the outdoors.

### 3.2.5.3. Roof Access

(1) On a *building* more than 3 *storeys* in *building height* where the slope of the roof is less than 1 in 4, all main roof areas shall be provided with direct access from the *floor areas* immediately below, either by

(a) a stairway, or

(b) a hatch not less than 550 mm by 900 mm with a fixed ladder.

(2) Clearance and access around roof signs or other obstructions shall provide

(a) a passage not less than 900 mm wide by 1 800 mm high, clear of all obstructions except for necessary horizontal supports not more than 600 mm above the roof surface,

(i) around every roof sign, and

(ii) through every roof sign at locations not more than 15 m apart, and

(b) a clearance of not less than 1 200 mm between any portion of a roof sign and any opening in the exterior wall face or roof of the *building* in which it is erected.

### 3.2.5.4. Access Routes

(1) A *building* which is more than 3 *storeys* in *building height* or more than 600 m<sup>2</sup> in *building area* shall be provided with access routes for fire department vehicles

(a) to the principal entrance, and

(b) to each *building* face having access openings for fire-fighting as required by Articles 3.2.5.1. and 3.2.5.2.

### 3.2.5.5. Location of Access Routes

(1) Access routes required by Article 3.2.5.4. shall be located so that the principal entrance and every access opening required by Articles 3.2.5.1. and 3.2.5.2. are located not less than 3 m and not more than 15 m from the closest portion of the access route required for fire department use, measured horizontally from the face of the *building*.

(2) Access routes shall be provided to a *building* so that

(a) for a *building* provided with a fire department connection, a fire department pumper vehicle can be located adjacent to the hydrants referred to in Article 3.2.5.16.,

(b) for a *building* not provided with a fire department connection, a fire department pumper vehicle can be located so that the length of the access route from a hydrant to the vehicle plus the unobstructed path of travel for the firefighter from the vehicle to the *building* is not more than 90 m, and

(c) the unobstructed path of travel for the firefighter from the vehicle to the *building* is not more than 45 m.

(3) The unobstructed path of travel for the firefighter required by Sentence (2) from the vehicle to the *building* shall be measured from the vehicle to the fire department connection provided for the *building*, except that if no fire department connection is provided, the path of travel shall be measured to the principal entrance of the *building*.

(4) If a portion of a *building* is completely cut off from the remainder of the *building* so that there is no access to the remainder of the *building*, the access routes required by Sentence (2) shall be located so that the unobstructed path of travel from the vehicle to one entrance of each portion of the *building* is not more than 45 m.

### 3.2.5.6. Access Route Design

(1) A portion of a roadway or yard provided as a required access route for fire department use shall

(a) have a clear width not less than 6 m, unless it can be shown that lesser widths are satisfactory,

(b) have a centreline radius not less than 12 m,

(c) have an overhead clearance not less than 5 m,

(d) have a change of gradient not more than 1 in 12.5 over a minimum distance of 15 m,

(e) be designed to support the expected loads imposed by fire fighting equipment and be surfaced with concrete, asphalt or other material designed to permit accessibility under all climatic conditions,

(f) have turnaround facilities for any dead-end portion of the access route more than 90 m long, and

(g) be connected with a public thoroughfare.

### 3.2.5.7. Water Supply

(1) An adequate water supply for fire-fighting shall be provided for every *building*.

(2) Hydrants shall be located within 90 m horizontally of any portion of a *building* perimeter which is required to face a *street* in Subsection 3.2.2.

### 3.2.5.8. Reserved

### 3.2.5.9. Reserved

### 3.2.5.10. Reserved

### 3.2.5.11. Reserved

### 3.2.5.12. Reserved

### 3.2.5.13. Automatic Sprinkler Systems

(1) Except as permitted by Sentences (2), (3) and (4), an automatic sprinkler system shall be designed, constructed, installed and tested in



conformance with NFPA 13, "Standard for the Installation of Sprinkler Systems".

(2) Instead of the requirements of Sentence (1), NFPA 13R, "Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height", is permitted to be used for the design, construction, installation and testing of an automatic sprinkler system installed in a *building of residential occupancy* that is not more than 4 *storeys* in *building height*.

(3) Instead of the requirements of Sentence (1), NFPA 13D, "Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Mobile Homes", is permitted to be used for the design, construction, installation and testing of an automatic sprinkler system installed in a *building of residential occupancy* that contains not more than 2 *dwelling units*.

(4) If a *building* contains fewer than 9 sprinklers, the water supply for these sprinklers is permitted to be supplied from the domestic water system for the *building* provided the required flow for the sprinklers can be met by the domestic system.

(5) If a water supply serves both an automatic sprinkler system and a system serving other equipment, control valves shall be provided so that either system can be shut off independently.

(6) Notwithstanding the requirements of the standards referenced in Sentences (1), (2) and (3) for the installation of automatic sprinkler systems, sprinklers shall not be omitted in any room or closet in the storey immediately below a roof assembly if the *fire-resistance rating* of the roof assembly is waived as permitted by Article 3.2.2.17.

(7) Fast response sprinklers shall be installed in *care or detention occupancies* and in *sprinklered residential occupancies*.

(8) Sprinklers in elevator machine rooms shall have a temperature rating not less than that required for an intermediate temperature classification and shall be protected against physical damage.

### 3.2.5.14. Combustible Sprinkler Piping

(1) *Combustible* sprinkler piping shall be used only for wet systems in *residential occupancies* and other light hazard *occupancies*.

(2) *Combustible* sprinkler piping shall meet the requirements of ULC/ORD-199P-M, "Guide for the Investigation of Combustible Piping for Sprinkler Systems".

(3) *Combustible* sprinkler piping shall be separated from the area served by the sprinkler system and from any other *fire compartment* by ceilings, walls, or soffits consisting of, as a minimum

- (a) lath and plaster,
- (b) gypsum board not less than 9.5 mm thick,
- (c) plywood not less than 13 mm thick, or
- (d) a suspended membrane ceiling with
  - (i) steel suspension grids, and
  - (ii) lay-in panels or tiles having a mass not less than 1.7 kg/m<sup>2</sup>.

(4) If *combustible* sprinkler piping is located above a ceiling, an opening through the ceiling that is not protected in conformance with Sentence (3) shall be located so that the distance between the edge of the opening and the nearest sprinkler is not more than 300 mm.

### 3.2.5.15. Sprinklered Service Space

(1) An automatic sprinkler system shall be installed in a *service space* referred to in Sentence 3.2.1.1.(7) if flooring for access within the *service space* is other than catwalks.

(2) The sprinkler system required by Sentence (1) shall be equipped with waterflow detecting devices, with each device serving not more than one *storey*.

(3) The waterflow detecting devices required by Sentence (2) shall be connected to the fire alarm system, to

- (a) initiate an *alert signal* in a 2 stage system or an *alarm signal* in a single stage system, and
- (b) indicate separately on the fire alarm system annunciator the actuation of each device.

(4) If a *building* is *sprinklered*, sprinkler protection need not be provided in the space below a raised floor in a *computer room*

- (a) if the optical fibre cables and electrical wires and cables in this space conform to the test requirements in Article 3.1.5.20.,
- (b) if the *building* is of *noncombustible construction* and other *combustible* components are limited to those permitted in Subsection 3.1.5.,
- (c) if this space is used to circulate conditioned air and the air handling system is designed to prevent the circulation of smoke upon a signal from a *smoke detector*,
- (d) if all of this space is easily accessible by providing access sections or panels in the raised floor, and
- (e) if the *computer room* is more than 2 000 m<sup>2</sup> and the annunciator has separate zone indicators of the actuation of *smoke detectors* located in this space so that the coverage for each zone is not more than 2 000 m<sup>2</sup>.

(5) Where a room, chute or bin is required to be *sprinklered* as indicated in Sentence 3.3.4.3.(1), Article 3.6.2.6. and Sentence 3.6.3.3.(6), the sprinklers may be supplied with water from the fire standpipe system provided that

- (a) except for a chute, not more than 8 sprinkler heads are required to protect any room or bin based on a maximum coverage of 12 m<sup>2</sup> per sprinkler head,
- (b) the standpipe riser is
  - (i) not less than 6 in. in diameter, or
  - (ii) hydraulically designed to meet combined water supply as specified in Clause (c),
- (c) the water supply for a standpipe system, pumping capability and water storage facility, if required, is increased to supply 95 L/min for each sprinkler head over and above the requirements for the standpipe system up to maximum 760 L/min for sprinklers,
- (d) a waterflow detecting device shall be installed in the sprinkler main adjacent to the point of connection to the standpipe riser, and
- (e) the activation of each waterflow detecting device in Clause (d) shall be indicated separately on the fire alarm system annunciator.



**3.2.5.16. Fire Department Connections**

(1) The fire department connection for a standpipe system shall be located so that the distance from the fire department connection to a hydrant is not more than 45 m and is unobstructed.

(2) The fire department connection for an automatic sprinkler system shall be located so that the distance from the fire department connection to a hydrant is not more than 45 m and is unobstructed.

(3) The fire department connections required in Sentences (1) and (2) shall be

- (a) located on the outside of a *building* adjacent to a *street* or an access route, not less than 300 mm and not more than 900 mm above ground level, and
- (b) provided with two 65 mm hose connections with female swivel hose couplings.

**3.2.5.17. Portable Fire Extinguishers**

(1) Portable fire extinguishers shall be installed in all *buildings*, except within *dwelling units*, in conformance with the provisions of Part 6 of the Ontario Fire Code made under the Fire Marshals Act.

(2) In a Group B, Division 1 *major occupancy*, portable fire extinguishers are permitted to be located in secure areas, or in lockable cabinets provided

- (a) identical keys for all cabinets are located at all supervisory or security stations, or
- (b) electrical remote release devices are provided and are connected to an emergency power supply.

**3.2.5.18. Protection from Freezing**

(1) Equipment forming part of a fire protection system shall be protected from freezing if

- (a) it could be adversely affected by freezing temperatures, and
- (b) it is located in an unheated area.

**3.2.5.19. Fire Pumps**

(1) A fire pump having a rated net head pressure greater than 280 kPa shall be installed in accordance with the requirements of NFPA 20, "Standard for the Installation of Centrifugal Fire Pumps".

**3.2.6. Additional Requirements for High Buildings****3.2.6.1. Application**

(1) This Subsection applies to a *building*

- (a) of Group A, D, E or F *major occupancy* classification that is more than
  - (i) 36 m high, measured between *grade* and the floor level of the top *storey*, or
  - (ii) 18 m high, measured between *grade* and the floor level of the top *storey*, and in which the cumulative or total *occupant load* on or above any *storey* above *grade*, other than the first *storey*, divided by 1.8 times the width in metres of all *exit* stairs at that *storey*, exceeds 300,

- (b) containing a Group B *major occupancy* in which the floor level of the highest *storey* of that *major occupancy* is more than 18 m above *grade*,
- (c) containing a *floor area* or part of a *floor area* located above the third *storey* designed or intended as a Group B, Division 2 or 3 *occupancy*, and
- (d) containing a Group C *major occupancy* whose floor level is more than 18 m above *grade*.

**3.2.6.2. Limits to Smoke Movement**

(1) Except as permitted in Sentence 3.2.6.6.(2), a *building* to which this Subsection applies shall be designed in accordance with Sentences (2) to (4) and Articles 3.2.6.3. to 3.2.6.7 to limit the danger to occupants and firefighters from exposure to smoke in a *building* fire.

(2) Except as provided in Articles 3.2.6.4. to 3.2.6.6., a *building* referred to in Sentence (1), shall be designed so that, during a period of 2 h after the start of a fire, all *floor areas* that are above the lowest *exit storey* will not contain more than 1% by volume of contaminated air from the fire floor, assuming an outdoor temperature equal to the January design temperature on a 2.5% basis determined in conformance with Subsection 2.5.1.

(3) Except as provided in Articles 3.2.6.4. and 3.2.6.6., a *building* referred to in Sentence (1), shall be designed so that during a period of 2 h after the start of a fire, the limit described in Sentence (2) on the movement of contaminated air into other *floor areas* is not exceeded in

- (a) each *exit* stair serving *storeys* above the lowest *exit level*, and
- (b) each *exit* stair serving *storeys* below the lowest *exit level*.

(4) Except as provided in Articles 3.2.6.4. and 3.2.6.6., a *building* referred to in Sentence (1), shall be designed so that during a period of 2 h after the start of a fire, the limit described in Sentence (2) on the movement of contaminated air into other *floor areas* is not exceeded in a shaft that contains an elevator for use by firefighters required by Article 3.2.6.9.

**3.2.6.3. Areas of Refuge**

(1) In a *building* of Group C *major occupancy* classification, the requirements of Sentence 3.2.6.2.(2) are waived in *buildings* where occupants above the first *storey* can enter and be safely accommodated in *floor areas* or parts of *floor areas* that are designated as areas of refuge on the plans and are identified as such in the *building*.

(2) Except as required in Sentence (3), the areas of refuge referred to in Sentence (1) shall be located on every fifth *storey*.

(3) The areas of refuge referred to in Sentence (1) shall be located on every *storey* if the *building* is more than 75 m high, measured between *grade* and the floor level of the top *storey*.

(4) The areas of refuge referred to in Sentence (1) shall

- (a) provide not less than 0.5 m<sup>2</sup> of floor space per ambulatory occupant and 1.5 m<sup>2</sup> of floor space per non-ambulatory occupant,
- (b) have access corridors and doors leading to each designated part of a *floor area* on the same *storey* sufficient to provide 3.67 mm of width for every person who may have to use these passages to reach the designated part of a *floor area*,
- (c) have access stairs from intervening *storeys* leading to each designated part of a *floor area* sufficient to provide 5.5 mm of width for every person who may have to use these stairs to reach the designated part of a *floor area*, and

- (d) not contain more than 1% by volume of contaminated air from the fire floor during a period of 2 h after the start of a fire, assuming an outdoor temperature equal to the January design temperature on a 2.5% basis determined in conformance with Subsection 2.5.1.

### 3.2.6.4. Sprinklered Buildings

(1) The requirements of Sentences 3.2.6.2.(2) and (4), and Clause 3.2.6.2.(3)(a) are waived when a *building* is *sprinklered*, and

- (a) the sprinkler system is equipped with a water flow and supervisory signal system that will
  - (i) transmit automatically a waterflow signal directly to the fire department, or through an independent central station,
  - (ii) transmit automatically other supervisory signals to a proprietary control centre or to an independent central station, and
  - (iii) actuate a signal at the central alarm and control facility described in Article 3.2.6.12.,
- (b) each stairway that serves *storeys* above the lowest *exit level* is vented to the outdoors at or near the bottom of the stair shaft,
- (c) measures are taken to limit movement of smoke from a fire in a *floor area* below the lowest *exit storey* into upper *storeys*, and
- (d) except for exhaust fans in kitchens, washrooms and bathrooms in *dwelling units*, and except for fans used for smoke venting in Article 3.2.6.10., air moving fans in a system that serves more than 2 *storeys* shall be designed and installed so that in the event of a fire these fans can be stopped by means of a manually operated switch at the central alarm and control facility.

### 3.2.6.5. Exception for Lower Buildings

(1) The requirements of Sentence 3.2.6.2.(2) are waived in a *building* of Group C *major occupancy* classification where

- (a) the *building* is not more than 75 m high measured between *grade* and the floor level of the top *storey*, and
- (b) the number of occupants of *storeys* above *grade* is not more than 3.6 times the area in square metres of treads and landings in the *exit* stairs serving these *storeys*.

### 3.2.6.6. Residential Buildings

(1) The requirements of Sentences 3.2.6.2.(2) and (4) and Clause 3.2.6.2.(3)(a) are waived in a *building* of Group C *major occupancy* classification

- (a) where each *suite* above *grade* has direct access to an exterior balcony that
  - (i) is not less than 1 500 mm deep from the outside face of the exterior wall to the inside edge of the balcony, and
  - (ii) provides not less than 0.5 m<sup>2</sup> of balcony space for each occupant of the *suite*,
- (b) where each stairway that serves *storeys* above the lowest *exit level* is vented to the outdoors at or near the bottom of the stair shaft,

- (c) where measures are taken to limit movement of smoke from a fire in a *floor area* below the lowest *exit storey* into upper *storeys*, and

- (d) where, except for exhaust fans in kitchens, washrooms and bathrooms in *dwelling units*, air moving fans are designed and installed so that in the event of a fire such fans can be stopped by means of a manually operated switch at the central alarm and control facility where the system serves more than 2 *storeys*.

(2) The requirements of Sentences 3.2.6.2.(2) and (3) are waived in a Group C *major occupancy* apartment *building*.

### 3.2.6.7. Connected Buildings

(1) If a *building* described in Sentence 3.2.6.1.(1) is connected to any other *building*, measures shall be taken to limit movement of contaminated air from one *building* into another during a fire.

### 3.2.6.8. Emergency Operation of Elevators

(1) Manual emergency recall shall be provided for all elevators serving *storeys* above the *first storey*.

(2) Key-operated switches for emergency recall described by Sentence (1) shall be provided in a conspicuous location at

- (a) each elevator lobby on the recall level, and
- (b) the central alarm and control facility required in Article 3.2.6.12.

(3) In-car emergency service switches shall be provided in all elevator cars.

(4) Keys to operate the switches required by Sentences (2) and (3) shall be

- (a) provided in a suitably identified box conspicuously located on the outside of an elevator hoistway near the central alarm and control facility required by Article 3.2.6.12., and

- (b) at the central alarm and control facility.

(5) Automatic emergency recall operation shall be provided for all elevators serving *storeys* above the *first storey* in unsprinklered *buildings*.

(6) The automatic emergency recall feature in Sentence (5) shall be actuated by

- (a) *smoke detectors* installed in each elevator lobby on each *storey*, or
- (b) the *building* fire alarm system.

(7) *Smoke detectors* in Sentence (6) shall be designed as part of the *building* fire alarm system.

### 3.2.6.9. Elevator for Use by Firefighters

(1) At least one elevator shall be provided for use by firefighters in conformance with Sentences (2) to (6).

(2) The elevator referred to in Sentence (1) shall have a usable platform area not less than 2.2 m<sup>2</sup> and shall be capable of carrying a load of 900 kg to the top floor that it serves from a landing on the *storey* containing the entrance for firefighter access referred to in Articles 3.2.5.4. and 3.2.5.5. within 1 min.

(3) Except when Measure K of the Supplementary Guidelines is used, each elevator for use by firefighters shall



(a) be provided with a *closure* at each shaft opening so that the interlock mechanism remains mechanically engaged and electrical continuity is maintained in the interlock circuits and associated wiring is operational for a period of not less than 1 h when the assembly is subjected to the standard fire exposure described in CAN4-S104-M, "Standard Method for Fire Tests of Door Assemblies",

(b) be protected with a vestibule containing no *occupancy* and separated from the remainder of the *floor area* by a *fire separation* having a *fire-resistance rating* not less than 45 min, or

(c) be protected with a corridor containing no *occupancy* and separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(4) Except as permitted in Sentence (5), an elevator referred to in Sentence (1) shall be capable of providing transportation from the *storey* containing the entrance for firefighter access referred to in Articles 3.2.5.4. and 3.2.5.5. to every floor that is above *grade* in the *building* and that is normally served by the elevator system.

(5) If it is necessary to change elevators to reach any floor referred to in Sentence (4), the system shall be designed so that not more than one change of elevator is required when travelling to any floor in the *building* from the *storey* containing the entrance for firefighter access referred to in Articles 3.2.5.4. and 3.2.5.5.

(6) Electrical conductors for the operation of the elevator referred to in Sentence (1) shall be

(a) installed in *service spaces* conforming to Section 3.6. that do not contain other *combustible* material, or

(b) protected against exposure to fire from the service entrance of the emergency power supply, or the normal service entrance of the normal power supply, to the equipment served, to ensure operation for a period of 1 h when subjected to the standard fire exposure described in CAN4-S101-M, "Standard Methods of Fire Endurance Tests of Building Construction and Materials".

### 3.2.6.10. Venting to Aid Fire-fighting

(1) Means of venting each *floor area* to the outdoors shall be provided by windows, wall panels or smoke shafts, except that in a *sprinklered floor area*, the *floor area* is permitted to be vented by the *building* exhaust system.

(2) Venting described in Sentence (1) shall conform to the requirements in the Supplementary Guidelines.

(3) Fixed glass windows shall not be used for the venting required by Sentence (1) if the breaking of the windows could endanger pedestrians below.

(4) Openable windows used for the venting required by Sentence (1) shall be permanently marked so that they are easily identifiable.

(5) Elevator hoistways shall not be designed for the venting required by Sentence (1).

### 3.2.6.11. Reserved

### 3.2.6.12. Central Alarm and Control Facility

(1) A central alarm and control facility shall be provided on the *storey* containing the entrance for firefighter access referred to in Articles 3.2.5.4. and 3.2.5.5. in a location that

(a) is readily accessible to firefighters entering the *building*, and

(b) takes into account the effect of background noise likely to occur under fire emergency conditions, so that the facility can properly perform its required function under such conditions.

(2) The central alarm and control facility required in Sentence (1) shall include

(a) means to control the voice communication system required by Article 3.2.6.13., so that messages can be sent to

(i) all loudspeakers simultaneously,

(ii) to individual *floor areas*, and

(iii) *exit* stairwells,

(b) means to indicate audibly and visually *alert signals* and *alarm signals* and a switch to

(i) silence the audible portion of these signals, and

(ii) indicate visually that the audible portion has been silenced,

(c) means to indicate visually that elevators are on emergency recall,

(d) an annunciator conforming to Article 3.2.4.8.,

(e) means to transmit *alert signals* and *alarm signals* to the fire department in conformance with Article 3.2.4.7.,

(f) means to release hold-open devices on doors to vestibules,

(g) means to manually actuate *alarm signals* in the *building* selectively to any zone or zones,

(h) means to silence the *alarm signals* referred to in Clause (g) in conformance with Sentences 3.2.4.22.(2) and (3),

(i) means, as appropriate to the measure for fire safety provided in the *building*, to

(i) actuate auxiliary equipment, or

(ii) communicate with a continually staffed auxiliary equipment control centre,

(j) means to communicate with telephones in elevator cars, separate from connections to firefighters' telephones, if elevator cars are required by the Elevating Devices Act to be equipped with a telephone,

(k) means to indicate visually, individual sprinkler system waterflow signals,

(l) means to indicate audibly and visually, sprinkler system supervisory signals,

(m) a switch to silence the audible portion of a supervisory signal, and



- (n) visual indication that the audible portion of a supervisory signal has been silenced.

### 3.2.6.13. Voice Communication System

(1) A voice communication system or systems conforming to Article 3.2.4.22. shall be provided in a *building* if

- (a) the floor of the top *storey*, is more than 36 m above *grade*, or
- (b) a *floor area* or part of a *floor area* located above the third *storey* is designed or intended for use as a Group B, Division 2 or 3 *occupancy*.

### 3.2.6.14. Protection of Electrical Conductors

(1) Electrical conductors which supply power to emergency equipment described in Articles 3.2.6.2. to 3.2.6.8. and 3.2.6.10 to 3.2.6.13. and to the mechanical air supply required by Clause 3.3.3.6.(1)(b), shall be protected against exposure to fire in accordance with Sentence (4) and the protection shall extend from the main emergency power to

- (a) the equipment served,
- (b) the distribution equipment supplying power to the equipment served, where both are in the same room, or
- (c) the emergency equipment necessary to maintain the air supply required in Clause 3.3.3.6.(1)(b).

(2) Where a fire alarm transponder is connected to, but located in a different room than, the central processing unit or other transponder, all wiring between the transponder and the central processing unit or the other transponder shall be protected against exposure to fire in accordance with Sentence (4).

(3) Where a panelboard supplies power to emergency lighting required by Article 3.2.3.7., the supply conductors to the panelboard shall be protected against exposure to fire in accordance with Sentence (4).

(4) To ensure continued operation for a period not less than that required by Subsection 3.2.7., the electrical conductors described in Sentences (1), (2) and (3)

- (a) shall be protected against fire exposure by a *fire separation* having a *fire-resistance rating*, or
- (b) shall meet the fire endurance tests when tested in accordance with ULC-S101, "Standard Methods of Fire Endurance Tests of Building Construction and Materials".

(5) Every fire alarm system control unit and transponder shall be installed in an electrical *service room* which does not contain other *combustible* material and which is separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

### 3.2.6.15. Testing

(1) The systems for control of smoke movement and mechanical venting required by Articles 3.2.6.2. and 3.2.6.10. shall be tested to ensure satisfactory operation in accordance with the procedures described in the Supplementary Guidelines.

## 3.2.7. Lighting and Emergency Power Systems

### 3.2.7.1. Minimum Lighting Requirements

(1) An *exit*, a *public corridor*, a corridor providing *access to exit* for the public, a corridor serving patients or residents in a Group B, Division 2 or Division 3 *occupancy*, a corridor serving classrooms, an electrical equipment room, a transformer vault and a hoistway pit shall be equipped to provide illumination to an average level not less than 50 lx at floor or tread level and at angles and intersections at changes of level where there are stairs or ramps.

(2) Rooms and spaces used by the public shall be illuminated as described in Article 9.34.2.7.

(3) Lighting outlets in a *building of residential occupancy* shall be provided in conformance with Subsection 9.34.2.

(4) Elevator machine rooms shall be equipped to provide illumination to an average level of not less than 100 lx at floor level.

(5) Every place of assembly intended for the viewing of motion pictures or the performing arts, shall be equipped to provide an average level of illumination at floor level in the aisles of not less than 2 lx during the viewing.

(6) Every area where food is intended to be processed, prepared or manufactured and where equipment or utensils are intended to be cleaned shall be equipped to provide illumination to a level of not less than 500 lx measured at the floor level.

(7) Every storage room, dressing room, sanitary facility, service area and corridor serving the areas in Sentence (6) shall be equipped to provide illumination to a level of not less than 300 lx measured at the floor level.

### 3.2.7.2. Recessed Lighting Fixtures

(1) A recessed lighting fixture shall not be located in an insulated ceiling unless the fixture is designed for this type of installation.

### 3.2.7.3. Emergency Lighting

(1) Emergency lighting shall be provided to an average level of illumination not less than 10 lx at floor or tread level in

- (a) *exits*,
- (b) Reserved
- (c) corridors used by the public,
- (d) corridors serving patients' or residents' sleeping rooms in a Group B, Division 2 or Division 3 *occupancy*,
- (e) corridors serving classrooms,
- (f) underground *walkways*,
- (g) *public corridors*,
- (h) *floor areas* or parts thereof where the public may congregate in
  - (i) Group A, Division 1 *occupancies*, or
  - (ii) Group A, Division 2 and 3 *occupancies* having an *occupant load* of 60 or more,
- (i) principal routes providing *access to exit* in a *floor area* that is not subdivided into rooms or *suites* of rooms served by corridors in

a *business and personal services occupancy*, a *mercantile occupancy* or an *industrial occupancy*, and

- (j) internal corridors or aisles serving as principal routes to *exits* in a *business and personal services occupancy*, a *mercantile occupancy* or an *industrial occupancy* that is subdivided into rooms or *suites* of rooms, and is not served by a *public corridor*.

(2) Emergency lighting to provide an average level of illumination of not less than 10 lx at floor or catwalk level shall be included in a *service space* referred to in Sentence 3.2.1.1.(7).

(3) The minimum value of the illumination required by Sentences (1) and (2) shall be not less than 1 lx.

#### 3.2.7.4. Emergency Power for Lighting

(1) An emergency power supply shall be

- (a) provided to maintain the emergency lighting required by this Subsection from a power source such as batteries or generators that will continue to supply power in the event that the regular power supply to the *building* is interrupted, and

- (b) so designed and installed that upon failure of the regular power it will assume the electrical load automatically for a period of

- (i) 2 h for a *building* within the scope of Subsection 3.2.6.,

- (ii) 1 h for a *building* of Group B *major occupancy* classification that is not within the scope of Subsection 3.2.6., and

- (iii) 30 min for a *building* of any other *occupancy*.

(2) If self-contained emergency lighting units are used, they shall conform to CSA C22.2 No. 141-M, "Unit Equipment for Emergency Lighting".

#### 3.2.7.5. Emergency Power Supply Installation

(1) Except as required by Articles 3.2.7.6. and 3.2.7.7., an emergency electrical power system shall be installed in conformance with CAN/CSA-C282-M, "Emergency Electrical Power Supply for Buildings".

#### 3.2.7.6. Emergency Power for Hospitals

(1) Except as required by Article 3.2.7.7., an emergency electrical power system for emergency equipment required by this Part for hospitals shall be installed in conformance with CAN/CSA-Z32.4-M, "Essential Electrical Systems for Hospitals".

#### 3.2.7.7. Fuel Supply Shut-off Valves and Exhaust Pipes

(1) If a liquid or gas fuel-fired engine or turbine for an emergency electric power supply is dependent on a fuel supply from outside the *building*, the fuel supply shall be provided with a suitably-identified separate shut-off valve outside the *building*.

(2) Where pipes for exhaust gases from emergency power systems penetrate required *fire separations*, they shall be enclosed in a separate *service space* having a *fire-resistance rating* equal to that of the penetrated floor assembly, but not less than 45 min.

#### 3.2.7.8. Emergency Power for Fire Alarm Systems

(1) An emergency power supply conforming to Sentences (2), (3) and (4) shall be provided for fire alarm systems.

(2) The emergency power supply required by Sentence (1) shall be supplied from

- (a) a generator,

- (b) batteries, or

- (c) a combination thereof.

(3) The emergency power supply required by Sentence (1) shall be capable of providing

- (a) supervisory power for not less than 24 h, and

- (b) immediately following, emergency power under full load for not less than

- (i) 2 h for a *building* within the scope of Subsection 3.2.6.,

- (ii) 1 h for a *building* classified as Group B *major occupancy* that is not within the scope of Subsection 3.2.6.,

- (iii) 5 min for a *building* not required to be equipped with an annunciator, and

- (iv) 30 min for any other *building*.

(4) The emergency power supply required by Sentence (1) shall be designed so that there will be automatic transfer to emergency power in the event of a failure of the normal power source.

(5) An emergency power supply shall be provided for the voice communication system required by Article 3.2.6.13.

(6) The emergency power supply required by Sentence (5) for the voice communication system shall be capable of

- (a) full operation immediately upon the failure of the normal source of power, and

- (b) maintaining operation of the system for not less than 2 h.

(7) If the emergency power supply required by Sentence (5) is provided by batteries, the batteries shall be sized to provide the total energy consumed by the maximum possible electrical supervision current plus the trouble signal current for a period of 24 h followed by 30 min of continuous voice communication.

#### 3.2.7.9. Emergency Power for Building Services

(1) An emergency power supply capable of operating under a full load for not less than 2 h shall be provided by an emergency generator for

- (a) every elevator serving *storeys* above the *first storey* in a *building* that is more than 36 m high measured between *grade* and the floor level of the top *storey* and every elevator for firefighters in conformance with Sentence (2),

- (b) water supply for fire-fighting in conformance with Article 3.2.5.7., if the supply is dependent on electrical power supplied to the *building*, and the *building* is within the scope of Subsection 3.2.6.,

- (c) fans and other electrical equipment that are installed to maintain the air quality specified in Article 3.2.6.2., and

- (d) fans required for venting by Article 3.2.6.10.

(2) Except as permitted by Sentence (3), the emergency power supply for elevators required by Clause (1)(a)<sup>1</sup> shall be capable of



operating all elevators for firefighters plus one additional elevator simultaneously.

(3) Sentence (2) does not apply if the time to recall all elevators under emergency power supply is not more than 5 min, each from its most remote *storey* to

(a) the *storey* containing the entrance for firefighter access referred to in Articles 3.2.5.4 and 3.2.5.5., or

(b) to a transfer lobby.

(4) Except as provided by Sentence (5), an emergency power supply capable of operating under a full load for not less than 30 min shall be provided by emergency generator for water supply for fire-fighting in conformance with Article 3.2.5.7., if the supply is dependent on electrical power supplied to the *building*, and the *building* is not within the scope of Subsection 3.2.6.

(5) Sentence (4) does not apply to the water supply for a standpipe system.

### 3.2.8. Mezzanines and Openings through Floor Assemblies

#### 3.2.8.1. Application

(1) Except as permitted by Article 3.2.8.2. and Sentence 3.3.4.2.(3), the portions of a floor area or a *mezzanine* that do not terminate at an exterior wall, a *firewall* or a vertical shaft shall

(a) terminate at a vertical *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly and extending from the floor assembly to the underside of the floor or roof assembly above, or

(b) be protected in conformance with the requirements of Articles 3.2.8.3. to 3.2.8.11.

(2) The penetration of a floor assembly by an *exit* or a vertical *service space* shall conform to the requirements of Sections 3.4., 3.5. and 3.6.

(3) A *floor area* containing sleeping rooms in a building of Group B, Division 2 or 3 *major occupancy* shall not be constructed as part of an *interconnected floor space*.

(4) Except as permitted in Sentence (5), an elementary or secondary school shall not

(a) contain an *interconnected floor space*, or

(b) be located in an *interconnected floor space*.

(5) An *interconnected floor space* is permitted in an elementary or secondary school provided

(a) the *interconnected floor space* consists of the *first storey*, and the *storey* next above or below it, but not both,

(b) the *interconnected floor space* is *sprinklered*,

(c) the portions of the upper *floor area* that do not terminate at an exterior wall, a *firewall* or a vertical shaft shall terminate at a vertical *fire separation* extending from the floor assembly to the underside of the floor or roof assembly above,

(d) except as provided in Clause (e), the *fire separation* required in Clause (c) need not have a *fire-resistance rating*,

(e) where a corridor is located immediately adjacent to the *fire separation* required in Clause (c), the *fire separation* shall have a *fire-resistance rating* of not less than 30 min, and

(f) where a portion of a *floor area* is not within the *interconnected floor space*, the required *access to exit* from this portion of the *floor area* shall not lead through the *interconnected floor space*.

#### 3.2.8.2. Exceptions to Special Protection

(1) A *mezzanine* need not terminate at a vertical *fire separation* nor be protected in conformance with the requirements of Articles 3.2.8.3. to 3.2.8.11. provided the *mezzanine*

(a) serves a Group A, Division 1 *major occupancy*,

(b) serves a Group A, Division 3 *major occupancy* in a building not more than 2 *storeys* in *building height*, or

(c) is not considered as a *storey* in Sentences 3.2.1.1.(3) or 3.2.1.1.(5) in calculating *building height* provided

(i) every point on the *mezzanine* is within 25 m of a point or points on the *mezzanine* perimeter from which, in the aggregate, an occupant may view 60% of the area of the room or *storey* in which the *mezzanine* is located, and

(ii) the *mezzanine* does not contain a Group B *occupancy*,

(d) is not considered a *storey* in Sentence 3.2.1.1.(4) in calculating *building height* provided the *mezzanine* is not more than 500 m<sup>2</sup> in area and does not contain a Group B *occupancy*, or

(e) is not considered a *storey* in calculating *building height* in Sentence 3.2.1.1.(8).

(2) Except for floors referred to in Sentence 3.1.10.3.(1) and Article 3.2.1.2., openings through a horizontal *fire separation* for vehicular ramps in a *storage garage* are not required to be protected with *closures* and need not conform to this Subsection.

(3) If a *closure* in an opening in a *fire separation* would disrupt the nature of a manufacturing process, such as a continuous flow of material from *storey* to *storey*, the *closure* for the opening is permitted to be omitted provided precautions are taken to offset the resulting hazard.

(4) An *interconnected floor space* in a Group B, Division 1 *occupancy* need not conform to the requirements of Articles 3.2.8.3. to 3.2.8.11. provided the *interconnected floor space* does not interconnect more than 2 adjacent *storeys*.

(5) Except as permitted by Sentence (6), openings for stairways, escalators and inclined moving walks need not conform to the requirements in Articles 3.2.8.3. to 3.2.3.11. provided

(a) the opening for each stairway, escalator or walk does not exceed 10 m<sup>2</sup>,

(b) the *building* is *sprinklered* throughout, and

(c) the *interconnected floor space* contains only Group A, Division 1, 2 or 3, Group D or Group E *occupancies*.

(6) An *interconnected floor space* need not conform to the requirements of Articles 3.2.8.3. to 3.2.8.11. provided

(a) the *interconnected floor space* consists of the *first storey* and the *storey* next above or below it, but not both,

(b) the *interconnected floor space* is *sprinklered*, and



- (c) the *interconnected floor space* contains only Group A, Division 1, 2 or 3, Group D, Group E, or Group F, Division 3 *occupancies*.

### 3.2.8.3. Configuration

(1) In *buildings* constructed in conformance with Articles 3.2.8.4. to 3.2.8.11., the *unprotected openings* through floor assemblies in an *interconnected floor space* shall be of sufficient size and shall be positioned relative to each other so as to be capable of containing, within the full height of the *interconnected floor space*, a cylinder conforming to Sentence (2).

(2) The cylinder referred to in Sentence (1) shall have a cross-section that, where taken at a right angle to the longitudinal axis of such cylinder, is

- (a) a circle at least 9 m in diameter, or
- (b) an ellipse at least 7 m wide along the minor axis and at least 65 m<sup>2</sup> in area.

### 3.2.8.4. Exits

(1) A *building* that is more than 18 m in height, measured between *grade* and the floor level of the top *storey*, and that contains an *interconnected floor space*, shall be designed to limit the passage of smoke from a fire into *exit* stairshafts opening into an *interconnected floor space* so that during a 2 h period after the start of fire, such stairshafts will not contain more than 1% by volume of contaminated air from the fire floor, assuming an outdoor temperature equal to the January design temperature on a 2.5% basis.

(2) Where a *building* containing an *interconnected floor space* is more than 75 m in height, measured between *grade* and the floor level of the top *storey*, the *exit* stairshaft protection required in Sentence (1) shall be accomplished by the provision, between each *floor area* and each *exit* stairshaft, of a vestibule provided with a mechanical air supply or with a vent opening to the outdoors.

(3) Where a vestibule protecting an *exit* stairshaft is incorporated into the design of the *building* to meet the requirements of Sentences (1) or (2), such vestibule shall

- (a) be designed so that each doorway for a door opening into the vestibule is located at least 1 800 mm from a door or doors opening outward from the vestibule,
- (b) be separated from the remainder of the *floor area* by a *fire separation* having a *fire-resistance rating* at least equal to that required for the *exit* which it serves except that the *fire-resistance rating* of a *fire separation* between the vestibule and a *public corridor* need not exceed 45 min, and
- (c) not have a door or doors opening into more than one *exit* stairshaft.

(4) Except where *exits* serving the *floor area* are at ground level, the increased travel distance to *exits* permitted by Clause 3.4.2.5.(1)(c) shall not apply to a *floor area* within an *interconnected floor space*.

(5) Where a portion of a *floor area* is not within an *interconnected floor space*, required *access to exit* from such portion of a *floor area* shall not lead through an *interconnected floor space*.

(6) Except as provided in Sentences (7) and (8), portions of an *interconnected floor space* that have floor levels more than 18 m above *grade* shall be served by *exits* that provide at least 0.3 m<sup>2</sup> of area of treads, landings and floor surface for each occupant of such portions of an *interconnected floor space*.

(7) The requirements of Sentence (6) need not be applied where a *floor area* that is a portion of an *interconnected floor space* and that has a floor level more than 18 m above *grade* is separated from the remainder of the *interconnected floor space* by a *fire separation* having a *fire-resistance rating* of at least 1 h, except that no *fire-resistance rating* is required for such *fire separation* where all of the *major occupancies* contained within the *interconnected floor space* may be classified as light hazard *occupancies* in conformance with Appendix A of NFPA 13 "Standard for the Installation of Sprinkler Systems".

(8) The requirements of Sentence (6) need not be applied where the *exit* stairs that serve *interconnected floor spaces* are designed so that the required width of each stair is cumulative.

### 3.2.8.5. Elevators

(1) Except as provided in Sentence (2), where an elevator shaft opens into an *interconnected floor space* and into *storeys* that are above such space and that have floor levels more than 18 m above *grade*, either the elevator doors opening into the *interconnected floor space* or the elevator doors opening into the *storeys* above the *interconnected floor space* shall be protected by vestibules that

- (a) are designed to restrict the passage of contaminated air to the limit described in Sentence 3.2.8.4.(1), and
- (b) conform to the requirements of Sentence 3.2.8.4.(3).

(2) Where elevator doors opening into an *interconnected floor space* are protected by vestibules in conformance with Sentence (1), the elevator doors opening into the lowest *storey* of the *interconnected floor space* need not be protected by such vestibules.

### 3.2.8.6. Group B Sleeping Rooms

(1) Openings provided for access between an *interconnected floor space* and a *building* or a portion of a *building* containing Group B *major occupancy* sleeping rooms shall be provided with vestibules that are provided with a mechanical air supply and that are designed

- (a) to restrict the passage of smoke from the *interconnected floor space* into the area containing sleeping rooms in accordance with the limits described in Sentence 3.2.8.4.(1), and
- (b) in conformance with Clause 3.2.8.4.(3)(a).

### 3.2.8.7. Sprinklers

(1) In a *building* containing an *interconnected floor space*, *storeys* that are wholly or partially within an *interconnected floor space* and all *storeys* below an *interconnected floor space* shall be *sprinklered*.

(2) In a *building* containing an *interconnected floor space*

- (a) waterflow alarm signals from sprinkler systems shall be transmitted to the fire department in conformance with Sentence 3.2.4.7.(4), and
- (b) sprinkler systems shall be electrically supervised as required in Sentence 3.2.4.9.(2).

### 3.2.8.8. Fire Alarm and Detection System

(1) A *building* containing an *interconnected floor space* shall be provided with

- (a) a fire alarm system and electrically supervised annunciator conforming to Subsection 3.2.4.,
- (b) a system of *smoke detectors* located

- (i) on the ceiling of each *storey* in the vicinity of the openings through floor assemblies described in Article 3.2.8.3., except within dwelling units, *heat detectors* may be installed instead of *smoke detectors*, and
- (ii) as required for the activation of the smoke control system described in Sentences (5), (6) and (7) of Article 3.2.8.9., and
- (c) facilities for transmitting a signal to the fire department in conformance with Article 3.2.4.7.

### 3.2.8.9. Smoke Control

(1) A smoke control system conforming to Sentences (2) to (8) shall be designed to control the movement of smoke within a *building* containing an *interconnected floor space*.

(2) The design of the smoke control system shall assume an outdoor temperature equal to the January design temperature on a 2.5% basis.

(3) Upon activation of the sprinkler system or automatic detection of smoke by at least two *smoke detectors* in a single zone within an *interconnected floor space*, the system shall

- (a) stop air moving fans which provide for the normal exhausting or re-circulating of air in an *interconnected floor space*,
- (b) activate *exit* stairshaft protection required in Article 3.2.8.4.,
- (c) activate elevator protection required in Article 3.2.8.5., and
- (d) activate the vestibule air supply required in Sentence 3.2.8.6.(1).

(4) A *building* containing an *interconnected floor space* may be designed so that, in the event of a fire arising in a *floor area* or part of a *floor area* within the *interconnected floor space*, automatic detection of such fire will activate air handling equipment that

- (a) extracts air directly from such *floor area* or part of a *floor area* at the rate of at least 6 air changes per hour, and
- (b) supplies air in sufficient quantities and at appropriate locations to prevent smoke from passing out of such *floor area* into other portions of the *interconnected floor space*.

(5) For purposes of Sentences (6) and (7), the volume of an *interconnected floor space* need not include the aggregate volume of those *floor areas* or portions of *floor areas* designed to have zoned air extraction in accordance with Sentence (4).

(6) A mechanical exhaust shall be provided to remove air at the top of an *interconnected floor space* at the rate of at least 6 air changes per hour, except that where the volume of the *interconnected floor space* exceeds 17 000 m<sup>3</sup>, only 4 air changes per hour need be provided.

(7) Except where zoned mechanical exhaust described in Sentence (4) has been activated, upon automatic detection of smoke within the volume of the *interconnected floor space*, the mechanical exhaust described in Sentence (6) shall be automatically activated and supply air shall be provided in sufficient quantity and at appropriate locations to allow a consistent rate of removal of smoke throughout the volume of the *interconnected floor space*.

(8) Overriding manual controls for the smoke control system shall be provided for fire department use at an acceptable location in the vicinity of the fire alarm annunciator.

### 3.2.8.10. Emergency Power Supply

(1) In a *building* that is more than 18 m in height, measured between *grade* and the floor level of the top *storey*, an emergency power supply capable of operating under a full load for at least 2 h shall be provided by an emergency generator or by a separate service not supplied by the same substation as the primary source for fans required for smoke control purposes in Articles 3.2.8.4., 3.2.8.5., 3.2.8.6. and 3.2.8.9.

### 3.2.8.11. Testing

(1) The systems for smoke control and venting described in Articles 3.2.8.4., 3.2.8.5., 3.2.8.6. and 3.2.8.9. shall be tested to ensure satisfactory operation.

### 3.2.9. Standpipe Systems

#### 3.2.9.1. Where Required

(1) Except as provided in Sentences (4) to (7), a standpipe system shall be installed in every *building* that

- (a) is more than 3 *storeys* in *building height*,
- (b) is more than 14 m high measured between *grade* and the ceiling of the top *storey*, or
- (c) is not more than 14 m high measured between *grade* and the ceiling of the top *storey* but has a *building area* exceeding the area shown in Table 3.2.9.1. for the applicable *building height* if the *building* is not *sprinklered*.

(2) A standpipe system shall be installed in every *basement* of a *building* that requires a standpipe system above *grade*.

(3) A standpipe system shall be installed in every *basement* of a *building* that is regulated by Sentence 3.2.2.15.(2).

(4) A standpipe system is not required to be installed in the lowest *storey* in a *building* if this *storey* is a *service room* which has an area not more than 50 m<sup>2</sup>.

(5) A standpipe system is not required to be installed in a roof-top enclosure if this enclosure has an area not more than 50 m<sup>2</sup>.

Table 3.2.9.1.

#### Building Limits without Standpipe Systems

Forming Part of Sentence 3.2.9.1.(1)

Occupancy Classification	Building Area, m <sup>2</sup>		
	1 Storey	2 Storeys	3 Storeys
A	2 500	2 000	1 500
C	2 000	1 500	1 000
D	4 000	3 000	2 000
F, Division 2	2 000	1 500	1 000
F, Division 3	3 000	2 000	1 000
Column 1	2	3	4

(6) A standpipe system is not required to be installed in a *storage garage* conforming to Article 3.2.2.83. provided the *building* is not more than 15 m high.

(7) A standpipe system is not required to be installed in a *dwelling unit* which

- (a) extends not more than 3 *storeys* above adjacent ground level,



- (b) is completely cut off from the remainder of the *building* so that there is no access to the remainder of the *building*, and
- (c) has direct access to its interior by means of an exterior doorway located not more than 1 500 mm above or below adjacent finished ground level.

### 3.2.9.2. Standpipe System Design

(1) Except as otherwise provided in this Subsection, if a standpipe system is required, the design, construction, installation and testing of the system shall be in conformance with NFPA 14, "Standard for the Installation of Standpipe and Hose Systems".

(2) A dry standpipe that is not connected to a water supply shall not be considered as fulfilling the requirements of this Article.

(3) If more than one standpipe is provided, the total water supply need not be more than 30 L/s.

(4) The residual water pressure at the design flow rate at the hydraulically most remote hose connection of a standpipe system that is required to be installed in a *building* is permitted to be less than 450 kPa provided that

- (a) the *building* is *sprinklered*,
- (b) the water supply at the base of the sprinkler riser is capable of meeting the design flow rate and pressure demand of the sprinkler system, including the inside and outside hose allowance, and
- (c) fire protection equipment is available to deliver, by means of the fire department connection, the full demand flow rate at a residual water pressure of 450 kPa at the hydraulically most remote hose connection of the standpipe system.

(5) A fire department connection shall be provided for every standpipe system.

(6) Pumps required to have a rated net head pressure greater than 280 kPa and their controllers shall be *listed* and labelled.

(7) Couplings for hoses or other fittings used in connection with such couplings shall conform to ULC-S513, "Standard for Threaded Couplings for 38 mm and 65 mm Fire Hose" or ULC-S543, "Standard for Internal Lug Quick Connect Couplings for Fire Hose".

(8) If freezing of piping may occur, a dry standpipe system may be provided and so arranged through the use of *listed* devices to

- (a) automatically admit water to the system by opening of a hose valve, and
  - (b) transmit a signal to an attended location.
- (9) A standpipe riser shall be located in
- (a) an *exit* stair shaft, or
  - (b) a *service space*.

### 3.2.9.3. Hose Connections

(1) If a standpipe system is required in a *building*, 38 mm diam hose connections shall be provided in each *storey* in the *building*.

(2) In addition to the requirements in Sentence (1), if a standpipe system is required, 65 mm diam hose connections shall be installed in each *storey* in the *building* if the *building*

- (a) is more than 25 m high, measured between *grade* and the ceiling of the top *storey*, or

- (b) has a *building area* of more than 4 000 m<sup>2</sup>.

### 3.2.9.4. Hose Stations

(1) If a standpipe system is required in a *building*, hose stations shall be provided in each *storey* in the *building*.

(2) Each hose station shall be equipped with a hose rack filled with not more than 30 m of 38 mm diam fire hose and the hose rack and fire hose shall be

- (a) *listed*, or
- (b) approved by the Factory Mutual Research Corporation.

(3) Except in a Group F *occupancy*, at each hose station, hose connections, valves, fire hose, nozzle and hose rack shall be in a hose cabinet.

(4) A hose cabinet referred to in Sentence (3) shall be of sufficient size to

- (a) contain the equipment referred to in Sentence (3),
- (b) contain a *listed* fire extinguisher, and
- (c) provide sufficient clearance to permit the use of a standard fire department hose key.

(5) Hose stations shall be located

- (a) so that every portion of the *building* can be reached by a hose stream and is within 3 m of a nozzle attached to the hose required in Sentence (2),
- (b) not more than 5 m from every required *exit* serving a *floor area*, except
  - (i) for the *first storey*, or
  - (ii) if additional hose stations are required to achieve full coverage of the *floor area*, and
- (c) in a conspicuous location where they are not likely to be obstructed.

(6) Except as permitted in Sentence (7), hose stations shall be located so that it is not necessary to penetrate an *exit* with a hose in order to provide the design coverage required in Clause (5)(a).

(7) A hose is permitted to penetrate an *exit* in order to provide the required coverage to

- (a) a *service room* referred to in Sentence 3.2.9.1.(4),
- (b) a roof-top enclosure referred to in Sentence 3.2.9.1.(5),
- (c) a room not more than 50 m<sup>2</sup> in area, or
- (d) a room or group of rooms not more than 200 m<sup>2</sup> in area in a *sprinklered floor area*.

(8) A hose station located on one side of a *horizontal exit* shall be considered to serve only the *floor area* on that side of the *horizontal exit*.



(9) A hose cabinet shall be located so that its door, when fully opened, will not obstruct the required width of a *means of egress*.

(10) A hose station in a Group B, Division 1 *major occupancy* is permitted to be located in a secure area, or in a lockable cabinet provided that

- (a) identical keys for all cabinets are located at all guard stations, or
- (b) electrical remote release devices are provided and are connected to an emergency power supply.

### 3.2.9.5. Supervisory Signal Annunciation for Valves

(1) If a fire alarm system in a *building* is required to have an annunciator by Sentence 3.2.4.8.(1), except for hose valves, each valve controlling water supplies in a standpipe system shall be equipped with an electrically supervised switch for transmitting a signal for individual annunciation in the event of movement of the valve handle.

### 3.2.9.6. Water Supply for 38 mm Hose Connections

(1) If a standpipe and hose system is required, the water supply shall be sufficient to provide a flow, measured at each of the two hydraulically most remote 38 mm diam hose connections

- (a) of not less than 380 L/min,
- (b) for not less than 30 min,
- (c) at a pressure of not less than 450 kPa, and
- (d) of not less than 190 L/min from each of the two outlets simultaneously.

### 3.2.9.7. Water Supply for 65 mm Hose Connections

(1) If 65 mm diam hose connections are required, the water supply shall be sufficient to provide a flow, measured at each of the two hydraulically most remote 65 mm diam hose connections

- (a) of not less than 1 890 L/min,
- (b) for not less than 30 min,
- (c) at a pressure of not less than 450 kPa, and
- (d) of not less than 945 L/min from each of the two outlets simultaneously.

(2) If the *building* is less than 84 m high, measured between *grade* and the ceiling level of the top *storey*, the water supply required in Sentence (1) is permitted to be supplied through the fire department connection.

(3) If the *building* is 84 m or more high, measured between *grade* and the ceiling level of the top *storey*, the water supply required in Sentence (1) shall be provided by sufficient pumping capacity.

(4) If the *building* is 84 m or more high, measured between *grade* and the ceiling level of the top *storey*, the *building* shall be served by not less than two sources of water supply from a public water system.

## Section 3.3. Safety within Floor Areas

### 3.3.1. All Floor Areas

#### 3.3.1.1. Separation of Suites

(1) Except as permitted by Sentences (2) and (3), each *suite* in other than *business and personal services occupancies* shall be separated from adjoining *suites* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(2) The *fire-resistance rating* of the *fire separation* required by Sentence (1) is permitted to be less than 1 h but not less than 45 min provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

- (a) the floor assembly above the *floor area*, or
- (b) the floor assembly below the *floor area*, if there is no floor assembly above.

(3) *Occupancies* that are served by *public corridors* conforming to Sentence 3.3.1.4.(5) in a *building* that is *sprinklered*, are not required to be separated from one another by *fire separations* provided the *occupancies* are

- (a) *suites of business and personal services occupancy*,
- (b) fast food vending operations that do not provide seating for customers, and
- (c) *suites of mercantile occupancy*.

#### 3.3.1.2. Hazardous Substances, Equipment and Processes

(1) If hazardous substances are used in connection with the activities of any *occupancy* other than as permitted by Subsection 3.3.5. for a *high hazard industrial occupancy*, the storage, handling and use of the hazardous substances shall be in conformance with

- (a) the Ontario Fire Code, or
- (b) the National Fire Code of Canada 1995, in the absence of regulations referred to in Clause (a).

(2) Cooking equipment, not within a *dwelling unit*, used in processes producing grease-laden vapours shall be designed and installed in conformance with Part 6.

(3) A fuel-fired *appliance* shall not be installed in a corridor serving as an *access to exit*.

#### 3.3.1.3. Means of Egress

(1) *Access to exit* within *floor areas* shall conform to Subsections 3.3.2. to 3.3.5., in addition to the requirements of this Subsection.

(2) If a podium, terrace, platform or contained open space is provided, egress requirements shall conform to the appropriate requirements of Sentence 3.3.1.5.(1) for rooms and *suites*.

(3) *Means of egress* shall be provided from every roof which is intended for *occupancy*, and from every podium, terrace, platform or contained open space.

(4) If a roof is used or intended for an *occupant load* more than 60, at least 2 separate *means of egress* shall be provided from the roof to stairs

- (a) designed in conformance with the requirements for *exit* stairs, and

(b) located so that the distance between the stairs conforms to the requirements of Article 3.4.2.3. for *exits*.

(5) A rooftop enclosure shall be provided with an *access to exit* that leads to an *exit*

(a) at the roof level, or

(b) on the *storey* immediately below the roof.

(6) A rooftop enclosure which is more than 200 m<sup>2</sup> in area shall be provided with at least 2 *means of egress*.

(7) Two points of egress shall be provided for a *service space* referred to in Sentence 3.2.1.1.(7) if

(a) the area is more than 200 m<sup>2</sup>, or

(b) the travel distance measured from any point in the *service space* to a point of egress is more than 25 m.

(8) Except as permitted by Sentences 3.3.4.4.(6) and (7), each *suite* in a *floor area* that contains more than one *suite* shall have

(a) an exterior *exit* doorway, or

(b) a doorway

(i) into a *public corridor*, or

(ii) to an exterior passageway.

(9) Except as permitted by this Section and by Sentence 3.4.2.1.(2), at the point where a doorway referred to in Sentence (8) opens onto a *public corridor* or exterior passageway, it shall be possible to go in opposite directions to each of 2 separate *exits*.

(10) *Means of egress* for a below ground *service room* which is not normally occupied, is permitted to be provided by stairways or fixed ladders.

### 3.3.1.4. Public Corridor Separations

(1) Except as otherwise required by this Part or permitted by Sentences (2) to (7), a *public corridor* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(2) The *fire-resistance rating* of a *fire separation* between a *public corridor* and the remainder of a *floor area* is permitted to be less than 1 h but not less than 45 min provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

(a) the floor assembly above the *floor area*, or

(b) the floor assembly below the *floor area*, if there is no floor assembly above.

(3) If a *floor area* is *sprinklered*, no *fire-resistance rating* is required for a *fire separation* between a *public corridor* and the remainder of the *floor area* provided the corridor does not serve a *care or detention occupancy* or a *residential occupancy*.

(4) If a *floor area* is *sprinklered*, no *fire separation* is required between a *public corridor* and the remainder of the *floor area* provided the *public corridor*

(a) is more than 5 m in unobstructed width, and

(b) does not serve

(i) a *care or detention occupancy*, or

(ii) a *residential occupancy*.

(5) If a *floor area* is *sprinklered*, no *fire separation* is required between a room or a *suite* and a *public corridor* that serves it provided the *public corridor* complies with Sentence 3.3.1.9.(6).

(6) A floor assembly of a *public corridor* above a crawl space that conforms to Sentence 3.2.2.9.(2) is not required to be a *fire separation*.

(7) If a *floor area* is *sprinklered*, no *fire separation* is required between a *public corridor* and a room containing water closets and lavatories provided the room and the *public corridor* are separated from the remainder of the *floor area* by a *fire separation* that has a *fire-resistance rating* not less than that required between the *public corridor* and the remainder of the *floor area*.

(8) The sprinkler system in Sentences (3), (4), (5) and (7) shall be electrically supervised in conformance with Sentence 3.2.4.9.(2) and, upon operation, shall cause a signal to be transmitted to the fire department in conformance with Sentence 3.2.4.7.(4) when the corridor serves a Group E or Group F, Division 1 or 2 *occupancy*.

### 3.3.1.5. Egress Doorways

(1) Except for *dwelling units*, a minimum of 2 egress doorways located so that one doorway could provide egress from the room or *suite* as required by Article 3.3.1.3. if the other doorway becomes inaccessible to the occupants due to a fire which originates in the room or *suite*, shall be provided for every room and every *suite*

(a) whose area is more than 15 m<sup>2</sup> and is used for

(i) a *high hazard industrial occupancy*, or

(ii) a *hazardous room*,

(b) intended for an *occupant load* more than 60,

(c) in a *floor area* that is not *sprinklered*, and

(i) the area of a room or *suite* is more than the value in Table 3.3.1.5.A., or

(ii) the travel distance within the room or *suite* to the nearest egress doorway, is more than the value in Table 3.3.1.5.A.,

(d) in a *floor area* that is *sprinklered* and does not contain a *high hazard industrial occupancy* and

(i) the travel distance to an egress doorway is more than 25 m, or

(ii) the area of the room or *suite* is more than the value in Table 3.3.1.5.B., or

(e) where the area of the room is more than 100 m<sup>2</sup> and it is a *hazardous classroom* in elementary or secondary school.

Table 3.3.1.5.A.

**Egress in Floor Area not Sprinklered**

Forming Part of Sentence 3.3.1.5.(1)

Occupancy of Room or Suite	Maximum Area of Room or Suite, m <sup>2</sup>	Maximum Distance to Egress Doorway, m
Group A	150	15
Group C	150 <sup>(1)</sup>	25 <sup>(1)</sup>
Group D	200	25
Group E	200	25
Group F, Division 2	200	25
Group F, Division 3	200	25
Column 1	2	3

**Note to Table 3.3.1.5.A.:**<sup>(1)</sup> See Article 3.3.4.4. for *dwelling units*.

Table 3.3.1.5.B.

**Egress in Floor Area Sprinklered**

Forming Part of Sentence 3.3.1.5.(1)

Occupancy of Room or Suite	Maximum Area of Room or Suite, m <sup>2</sup>
Group A	200
Group B, Division 1	100
Group B, Division 2 or 3	100
sleeping rooms	100
other than sleeping rooms	200
Group C	150 <sup>(1)</sup>
Group D	300
Group E	200
Group F, Division 2	200
Group F, Division 3	300
Column 1	2

**Note to Table 3.3.1.5.B.:**<sup>(1)</sup> See Article 3.3.4.4. for *dwelling units*.

(2) Except for a *mezzanine* within a *dwelling unit*, every *mezzanine* that is not required to terminate at a vertical *fire separation* in Article 3.2.8.2. shall have 2 egress facilities placed in such a manner that one facility could provide egress from the *mezzanine* if the other facility becomes inaccessible to the occupants of the *mezzanine* due to a fire which might originate in the room or *suite* in which the *mezzanine* is located where

- (a) the *occupancy* of the *mezzanine*, room or *suite* is classified as Group F, Division 1,
- (b) the *mezzanine* is intended for an *occupant load* of more than 60 persons,
- (c) in a *floor area* that is not *sprinklered*,
  - (i) the area of a *mezzanine* is more than the value in Table 3.3.1.5.A., or
  - (ii) the travel distance to an egress doorway or an egress facility is more than the value in Table 3.3.1.5.A., or
- (d) in a *floor area* that is *sprinklered*,

(i) the travel distance to an egress doorway or an egress facility is not more than 25 m, or

(ii) the area of the *mezzanine* is more than the value in Table 3.3.1.5.B.

(3) For the purpose of Clause (2)(c) and Clause 2(d)

- (a) if the room or *suite* in which the *mezzanine* is located is permitted to have one egress doorway, the travel distance is measured from any point on the *mezzanine* to that doorway, or
- (b) if the room or *suite* in which the *mezzanine* is located is required to have more than one egress doorway, the travel distance is measured from any point on the *mezzanine* to the nearest egress facility leading from the *mezzanine*.

(4) Except for a *mezzanine* which is not considered as a *storey* in calculating *building height* in Sentence 3.2.1.1.(4), where the space below a *mezzanine* is enclosed, an egress facility from the *mezzanine* shall not lead into the enclosed space.

**3.3.1.6. Travel Distance**

(1) If more than one egress doorway is required from a room or *suite* referred to in Article 3.3.1.5., the travel distance within the room or *suite* to the nearest egress doorway shall not exceed the maximum travel distances specified in Clauses 3.4.2.5.(1)(a), (b), (c) and (f) for *exits*.

**3.3.1.7. Protection on Floor Areas with a Barrier-Free Path of Travel**

(1) Except as provided in Sentences (2) and (3), every *floor area* above or below the *first storey* that has a *barrier-free* path of travel shall

- (a) be served by an elevator
  - (i) conforming to Sentences 3.2.6.9.(4) to (6),
  - (ii) protected against fire in conformance with Clauses 3.2.6.9.(3)(b) or (c), and
  - (iii) in a *building* over 3 *storeys* in *building height*, protected against smoke movement so that the hoistway will not contain more than 1% by volume of contaminated air from a fire floor during a period of 2 h after the start of a fire, assuming an outdoor temperature equal to the January design temperature on a 2.5% basis determined in conformance with Subsection 2.5.1., or
- (b) be divided into at least 2 zones by *fire separations* conforming to Sentences (4), (5) and (6) so that
  - (i) persons with physical disabilities can be accommodated in each zone,
  - (ii) the travel distance from any point in one zone to a doorway leading to another zone shall be not more than the value for travel distance permitted by Sentence 3.4.2.5.(1) for the *occupancy* classification of the zone, and
  - (iii) a *barrier-free* path of travel is provided to an *exit*.

(2) In *residential occupancies*, the requirements of Sentence (1) are waived if a balcony conforming to Sentence (7) is provided for each *suite*, except for *suites* on the *storey* containing the *barrier-free* entrance described in Article 3.8.1.2.

(3) The requirements of Sentences (1) and (2) are waived when the *building* is *sprinklered*.



(4) Except as permitted by Sentence (5), the *fire separations* referred to in Clause (1)(b) shall have a *fire-resistance rating* not less than 1 h.

(5) The *fire-resistance rating* of the *fire separations* referred to in Clause (1)(b) is permitted to be less than 1 h but not less than 45 min provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

- (a) the floor assembly above the *floor area*, or
- (b) the floor assembly below the *floor area*, if there is no floor assembly above.

(6) A door acting as a *closure* in a *fire separation* referred to in Clause (1)(b) shall be weatherstripped or otherwise designed and installed to retard the passage of smoke.

(7) A balcony required by Clause (1)(c) shall

- (a) Reserved
- (b) be not less than 1500 mm deep from the outside face of the exterior wall to the inside edge of the balcony, and
- (c) provide not less than 0.5 m<sup>2</sup> for each occupant of the *suite*.

### 3.3.1.8. Headroom Clearance

(1) Except within the *floor area* of a *storage garage*, the minimum headroom clearance in every *access to exit* shall conform to the requirements of Article 3.4.3.6. for *exits*.

### 3.3.1.9. Corridors

(1) The minimum width of a *public corridor* shall be 1 100 mm.

(2) Except as required by Sentences 3.3.3.3.(2) and (3), the minimum unobstructed width shall be 1 100 mm for every

- (a) corridor used by the public,
- (b) corridor serving classrooms, and
- (c) corridor in a Group B, Division 2 or 3 *occupancy* where the corridor
  - (i) serves a *service room*,
  - (ii) serves an administrative area,
  - (iii) will not be used by non-ambulatory outpatients, or
  - (iv) will not be used by non-ambulatory residents.

(3) Except as permitted by Sentence (4), obstructions located within 1 980 mm of the floor shall not project more than 100 mm horizontally in a manner that would create a hazard for a person with a visual disability travelling adjacent to the walls in

- (a) an *exit* passageway,
- (b) a *public corridor*,
- (c) a corridor used by the public,
- (d) a corridor serving classrooms, or

(e) a corridor serving patients' or residents' sleeping rooms in a Group B, Division 2 or Division 3 *occupancy*.

(4) The horizontal projection of an obstruction referred to in Sentence (3) is permitted to be more than 100 mm provided the clearance between the obstruction and the floor is less than 680 mm.

(5) If a *public corridor*, a corridor used by the public, a corridor serving classrooms or a corridor serving patients' or residents' sleeping rooms in a Group B, Division 2 or Division 3 *occupancy*, contains an *occupancy*, the *occupancy* shall not reduce the unobstructed width of the corridor to less than its required width.

(6) If a *public corridor* conforming to Clause 3.4.2.5.(1)(d) contains an *occupancy*

- (a) the *occupancy* shall be located so that for pedestrian travel there is an unobstructed width not less than 3 m at all times adjacent and parallel to all rooms and *suites* that front onto the *public corridor*, and
- (b) the combined area of all *occupancies* in the *public corridor* shall be not more than 15% of the area of the *public corridor*.

(7) Except as provided in Sentence 3.3.3.3.(1), a dead end corridor shall conform to Sentences (8) to (14).

(8) A dead end corridor is permitted in an *assembly occupancy* where there is a second and separate egress doorway from each room or *suite* not leading into a dead end corridor.

(9) In a *residential occupancy*, except for corridors served by a single *exit* as described in Sentence 3.3.4.4.(7), a dead end *public corridor* is permitted provided it is not more than 6 m long.

(10) Dead end corridors in Sentence (9) shall contain no door openings to *service rooms* containing fuel-fired *appliances* or rooms which may be considered a hazard.

(11) A dead end *public corridor* is permitted in a *business and personal services occupancy* where

- (a) the dead end corridor
  - (i) serves an *occupant load* of not more than 30 persons,
  - (ii) is not more than 9 m long, and
  - (iii) is provided with doors having self-closing devices, or
- (b) there is a second and separate egress doorway from each room or *suite* not leading into a dead end corridor.

(12) A dead end corridor is permitted in a *mercantile occupancy* where

- (a) the dead end corridor
  - (i) serves an *occupant load* of not more than 30 persons,
  - (ii) is not more than 9 m long, and
  - (iii) is provided with doors having self-closing devices, or
- (b) there is a second and separate egress doorway from each room or *suite* not leading into a dead end corridor.

(13) A dead end corridor is permitted in a *low or medium hazard industrial occupancy* where

- (a) the dead end corridor
  - (i) serves an *occupant load* of not more than 30 persons,
  - (ii) is not more than 9 m long, and
  - (iii) is provided with doors having self-closing devices, or
- (b) there is a second and separate egress doorway from each room or *suite* not leading into a dead end corridor.

(14) A dead end corridor is permitted in a *high hazard industrial occupancy* where there is a second and separate egress doorway from each room or *suite* not leading into a dead end corridor.

### 3.3.1.10. Door Swing

(1) Except as permitted by Article 3.3.1.11., a door that opens into a corridor or other facility providing *access to exit* from a *suite*, or a room not located within a *suite*, shall swing on a vertical axis.

(2) Except as permitted by Article 3.3.1.11., a door that opens into a corridor or other facility providing *access to exit* from a room or *suite* shall swing in the direction of travel to the *exit* if the room or *suite* is used or intended for

- (a) an *occupant load* more than 60,
- (b) a *high hazard industrial occupancy*,
- (c) a *hazardous classroom* in an elementary or secondary school, or
- (d) a Group B, Division 2 or 3 *occupancy*.

(3) Every door that divides a corridor that is not wholly contained within a *suite* shall swing on a vertical axis in the direction of travel to the *exit* where the corridor provides *access to exit* for

- (a) an *occupant load* more than 60,
- (b) a *high hazard industrial occupancy*,
- (c) a *hazardous classroom* in an elementary or secondary school, or
- (d) a Group B, Division 2 or 3 *occupancy*.

(4) If a pair of doors is installed in a corridor that provides *access to exit* in both directions, the doors shall swing in opposite directions, with the door on the right hand side swinging in the direction of travel to the *exit*.

### 3.3.1.11. Sliding Doors

(1) Except as permitted by Sentence (2), a sliding door provided in the locations described in Article 3.3.1.10. shall

- (a) be designed and installed to swing on the vertical axis in the direction of travel to the *exit* when pressure is applied, and
- (b) be identified as a swinging door by means of a label or decal affixed to it.

(2) In a Group B, Division 1 *occupancy*, or in an *impeded egress zone* in other *occupancies*, sliding doors used in an *access to exit* need not conform to Sentence (1) and Article 3.3.1.10.

(3) Movable *partitions* used to separate a *public corridor* from an adjacent *business and personal services occupancy* or a *mercantile occupancy* need not conform to Sentence (1) and Sentences 3.3.1.10.(1)

and (2) provided the *partitions* are not located in the only *means of egress*.

### 3.3.1.12. Doors and Door Hardware

(1) A door that opens into or is located within a *public corridor* or other facility that provides *access to exit* from a *suite* shall

- (a) provide a clear opening of not less than 800 mm if there is only one door leaf,
- (b) in a doorway with multiple leaves, have the active leaf providing a clear opening of not less than 800 mm, and
- (c) not open onto a step.

(2) A door in an *access to exit* shall be readily openable in travelling to an *exit* without requiring keys, special devices or specialized knowledge of the door opening mechanism, except that this requirement does not apply to a door serving a *contained use area*, or an *impeded egress zone*, provided the locking devices conform to Sentence (6).

(3) Except as permitted by Sentence (4), door release hardware shall be operable by one hand and the door shall be openable with not more than one releasing operation.

(4) An egress door from an individual *dwelling unit* or from a *suite* of *residential occupancy* is permitted to be provided with additional devices that require a releasing operation additional to the main door release hardware, provided the devices are readily operable from the inside without the use of keys, special devices or specialized knowledge.

(5) Door release hardware shall be installed not more than 1 200 mm above the finished floor.

(6) An egress door in an *access to exit* serving a *contained use area* or an *impeded egress zone* is permitted to be equipped with locking devices that can be released either locally or remotely in conformance with Sentence (7) or Sentence (8).

(7) Local locking devices permitted by Sentence (6) shall be operable by a key from both sides of the door.

(8) Controls for the remote release of door locking devices permitted by Sentence (6) shall be located in an area readily available to security personnel.

(9) Locking devices permitted by Sentence (6) that are electrically operated shall be

- (a) designed to operate on emergency power, and
- (b) capable of manual release by security personnel.

(10) A door in an *access to exit* is permitted to be equipped with an electromagnetic locking device conforming to Sentence 3.4.6.15.(4), except that this permission does not apply to a door

- (a) in an elementary or secondary school,
- (b) a door leading from a Group F, Division 1 *occupancy*, or
- (c) requiring a latch release device by Article 3.3.2.6.

(11) Except as required in Article 3.3.3.4., in a Group B, Division 2 or 3 *occupancy*, every door that opens into or is located within a corridor or other facility that provides *access to exit* shall comply with Sentences (1) and (2) where the door



- (a) serves a *service room*,
- (b) serves an administrative area,
- (c) will not be used by non-ambulatory outpatients,
- (d) is located within a patient's or resident's sleeping room, or
- (e) is in a nursing home or home for the aged which will accommodate only ambulatory residents.

### 3.3.1.13. Ramps and Stairways

(1) Except as permitted by Sentence (2), Article 3.3.4.7., and Subsection 3.3.2., ramps and stairways shall conform to the dimensional, *guard* and handrail requirements in Section 3.4. for *exit* ramps and stairways.

(2) Ramps and stairways that do not conform to the requirements of Sentence (1) are permitted to serve *service rooms* and *service spaces* and in *industrial occupancies*, provided the ramps and stairways are intended only for occasional use for servicing equipment and machinery.

### 3.3.1.14. Exterior Passageways

(1) An exterior passageway leading to a required *exit* shall conform to the requirements of Section 3.4. for exterior *exit* passageways.

### 3.3.1.15. Curved or Spiral Stairs

(1) A curved or spiral stair is permitted in a stairway not required as an *exit* provided the stair has

- (a) treads with
  - (i) a minimum run not less than 150 mm, and
  - (ii) an average run not less than 200 mm, and
- (b) risers in conformance with Sentence 3.4.6.7.(2).

### 3.3.1.16. Capacity of Access to Exits

(1) The capacity of an *access to exit* shall be based on the *occupant load* of the portion of the *floor area* served.

(2) In an *access to exit* the required width of ramps with a slope not more than 1 in 8, doorways, and corridors shall be based on not less than 6.1 mm per person.

(3) In an *access to exit* the required width of a ramp with a slope more than 1 in 8 shall be based on not less than 9.2 mm per person.

(4) In an *access to exit* from a *floor area* used or intended to be used for patients or residents in a Group B, Division 2 or Division 3 *occupancy*, the required width of corridors, doorways, and ramps shall be based on not less than 18.4 mm per person.

(5) The capacity of stairs in an *access to exit* shall conform to the requirements for stairs in Article 3.4.3.4.

### 3.3.1.17. Guards

(1) Except for the front edges of *stages*, floor pits in repair garages and loading docks, a *guard* not less than 1 070 mm high shall be provided

- (a) around each roof to which access is provided for other than maintenance,
- (b) at openings into smoke shafts referred to in Subsection 3.2.6. that are less than 1 070 mm above the floor, and
- (c) at each raised floor, *mezzanine*, balcony, gallery, interior or exterior vehicular ramp, and at other locations where the difference in level is more than 600 mm.

(2) Except as provided in Sentence (3) and Sentence 3.3.2.8.(4), openings through any *guard* which is required by Sentence (1) shall be of a size which will prevent the passage of a sphere having a diameter more than 100 mm unless it can be shown that the location and size of openings which exceed this limit do not represent a hazard.

(3) Openings through any *guard* which is required by Sentence (1) and which is installed in a *building of industrial occupancy* shall be of a size which will prevent the passage of a sphere having a diameter more than 200 mm unless it can be shown that the location and size of openings which exceed this limit do not represent a hazard.

(4) Openings through any *guard* which is not required by Sentence (1) and which serves a *building* of other than *industrial occupancy*, shall be of a size which

- (a) will prevent the passage of a sphere having a diameter more than 100 mm, or
- (b) will permit the passage of a sphere having a diameter more than 200 mm unless it can be shown that the location and size of openings which exceed these limits do not represent a hazard.

(5) Unless it can be shown that the location and size of openings do not present a hazard, a *guard* shall be designed so that no member, attachment or opening located between 140 mm and 900 mm above the level protected by the *guard* will facilitate climbing.

### 3.3.1.18. Transparent Doors and Panels

(1) Except for *dwelling units* and as permitted by Sentence (4), a glass or transparent door shall be designed and constructed so that the existence and position of the door is readily apparent, by attaching non-transparent hardware, bars or other permanent fixtures to it.

(2) A glass door shall be constructed of

- (a) laminated or tempered safety glass conforming to CAN/CGSB-12.1-M, "Tempered or Laminated Safety Glass", or
- (b) wired glass conforming to CAN/CGSB-12.11-M, "Wired Safety Glass".

(3) Except as permitted by Sentence (4), transparent panels used in an *access to exit* which, because of their physical configuration or design, could be mistaken as a *means of egress* shall be made inaccessible by barriers or railings.

(4) Sliding glass *partitions* which separate a *public corridor* from an adjacent *occupancy* and which are intended to be open during normal working hours need not conform to Sentences (1) and (3), provided the *partitions* are suitably marked to indicate their existence and position.

(5) Glass in doors and in sidelights that could be mistaken for doors, within or at the entrances to *dwelling units* and in public areas, shall conform to the requirements of Article 9.6.6.2.

(6) A window in a public area that extends to less than 1 070 mm above the floor and is located above the second *storey* in a *building of residential occupancy*, shall be protected by a barrier or railing from the floor to not less than 1 070 mm above the floor, or the window shall be



non-openable and designed to withstand the lateral design loads for balcony *guards* required by Article 4.1.10.1.

### 3.3.1.19. Exhaust Ventilation

(1) An exhaust ventilation system designed in conformance with the appropriate requirements of Part 6 shall be provided in a *building* or part of a *building* in which dust, fumes, gases, vapour or other impurities or contaminants have the potential to create a fire or explosion hazard.

(2) Explosion relief devices, vents or other protective measures conforming to Subsection 6.2.2. shall be provided for a space in which substances or conditions that have the potential to create an explosion hazard are present as a result of the principal use of a *building*.

### 3.3.1.20. Janitors' Rooms

(1) Except as permitted by Sentences (2) and (3), a room or space within a *floor area* for the storage of janitorial supplies shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(2) The *fire-resistance rating* of the *fire separation* required by Sentence (1) is permitted to be not less than 45 min provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

- (a) the floor assembly above the *floor area*, or
- (b) the floor assembly below the *floor area*, if there is no floor assembly above.

(3) The *fire separation* required by Sentence (1) is not required to have a *fire-resistance rating* if the *floor area* in which the room or space is located is *sprinklered*.

### 3.3.1.21. Common Laundry Rooms

(1) Except as permitted by Sentences (2) and (3), in a *building* of *residential occupancy*, a laundry room in a *floor area* that is not within a *dwelling unit* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(2) The *fire-resistance rating* of the *fire separation* required by Sentence (1) is permitted to be not less than 45 min provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

- (a) the floor assembly above the *floor area*, or
- (b) the floor assembly below the *floor area*, if there is no floor assembly above.

(3) The *fire separation* required by Sentence (1) is not required to have a *fire-resistance rating* if the *floor area* in which the laundry room is located is *sprinklered*.

### 3.3.1.22. Obstructions

(1) No obstruction shall be permitted in any *occupancy* that would restrict the width of a normal *means of egress* from any part of a *floor area* to less than 750 mm unless an unobstructed alternative *means of egress* is provided adjacent to, accessible from, and plainly visible from the obstructed *means of egress*.

### 3.3.1.23. Signs in Service Spaces

(1) Illuminated signs conforming to Sentences 3.4.5.1.(3) and (5) shall be provided to indicate the direction to egress points in a *service space* referred to in Sentence 3.2.1.1.(7).

### 3.3.1.24. Welding and Cutting

(1) If a room in other than an industrial *major occupancy* is used for welding and cutting operations, it shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h, except that this requirement does not apply to a room that is protected by an automatic fire extinguishing system.

## 3.3.2. Assembly Occupancy

### 3.3.2.1. Scope

(1) This Subsection applies to *floor areas* or parts thereof used or intended for use as *assembly occupancies*.

### 3.3.2.2. Fire Separations

(1) Except as permitted by Sentence (2), the seating area of a Group A, Division 1 *occupancy* shall be separated from adjacent *occupancies* in the *floor area* by a *fire separation* having a *fire-resistance rating* not less than 1 h if the *occupant load* in the seating area exceeds 200.

(2) The *fire-resistance rating* of the *fire separation* required by Sentence (1) is permitted to be less than 1 h but not less than 45 min provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

- (a) the floor assembly above the *floor area*, or
- (b) the floor assembly below the *floor area*, if there is no floor assembly above.

(3) If usable space exists under tiers of seats in arena type *buildings*, a *fire separation* with a *fire-resistance rating* not less than 45 min shall be provided between the space and the seats or the space shall be *sprinklered*.

(4) Except as required in Sentences (5), (6) and (7), in an elementary or secondary school, a *hazardous classroom* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than

- (a) 1 h where the *building* is not *sprinklered*, or
- (b) 30 min where the *building* is *sprinklered*.

(5) Except as provided in Sentence (6), in an elementary or secondary school, a *hazardous classroom* containing an auto repair shop shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than

- (a) 2 h where the *building* is not *sprinklered*, or
- (b) 1 h where the *building* is *sprinklered*.

(6) In an elementary or secondary school, if there is a group of *hazardous classrooms* or a group of *hazardous classrooms* and ancillary rooms of a complementary use, the *fire separation* required by Sentence (4) or (5) need not be provided within the group but the *fire separation* is required between the group and the remainder of the *building*.

(7) In an elementary or secondary school, a *hazardous classroom* containing a spray painting operation shall be separated from the

remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than

- (a) 2 h, or
- (b) 1 h where the spray painting operation is separated from the classroom by a *fire-separation* having a *fire-resistance rating* not less than 1 h.

(8) Except as required in Sentence (9), in an elementary or secondary school, where the *occupant load* of a room exceeds 200 persons, the room and any ancillary rooms of a complementary use shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than

- (a) 1 h where the *building* is not *sprinklered*, or
- (b) 30 min where the *building* is *sprinklered*.

(9) A kitchen shall not be located within the *fire compartment* required in Sentence (8).

### 3.3.2.3. Fixed Seats

(1) Except for the requirements of Article 3.3.2.7. for bench-type seats and except as required or permitted by Sentence (2) and Articles 3.3.2.9. and 3.3.2.10., fixed seats in places of assembly shall be

- (a) attached or secured to the floor, platform or platform riser,
- (b) provided with arms and back, and
- (c) arranged in rows having an unobstructed passage not less than 400 mm wide measured horizontally between plumb lines from the backs of the seats in one row and the edges of the furthest forward projection of the seats in the next row in the unoccupied position.

(2) For fixed seats with backs and with folding tablet arms, the value of 400 mm required by Clause (1)(c) shall be measured when the tablet arms are in the use position, but is permitted to be measured in the stored position provided

- (a) there are not more than 7 seats between any seat and the nearest aisle,
- (b) the seats are located in a lecture hall or an auditorium used for instructional purposes, and
- (c) the tablet arm, when raised manually to a vertical position, falls by the force of gravity to the stored position.

(3) Except as permitted by Sentence (4), aisles shall be located so that there are not more than 7 seats with backs or 20 seats without backs between any seat and the nearest aisle.

(4) The requirements of Sentence (3) do not apply if

- (a) egress doorways are provided to serve both ends of rows of seats,
- (b) each doorway referred to in Clause (a) serves not more than 3 rows of seats, and
- (c) each row contains not more than 100 seats.

(5) Seating arrangements that do not conform to the requirements of Sentences (3) or (4) are permitted provided the standard of safety is not reduced and the time required for egress is not increased.

### 3.3.2.4. Aisles

(1) Except as required by Articles 3.3.2.7., 3.3.2.9. and 3.3.2.10., aisles leading to egress doors or *exits* shall be provided in conformance with Sentences (2) to (24) in places of assembly which contain fixed seats.

(2) In this Subsection, a converging aisle is an aisle into which the occupants of 2 or more aisles converge in travelling to an *exit*.

(3) An aisle shall terminate at

- (a) a converging aisle,
- (b) an egress doorway from the seating area, or
- (c) an *exit* from the seating area.

(4) A converging aisle shall terminate at

- (a) an egress doorway from the seating area, or
- (b) an *exit* from the seating area.

(5) The minimum clear width of aisles shall be not less than 1 100 mm, except that the width is permitted to be reduced to not less than

- (a) 750 mm if serving not more than 60 seats, and
- (b) 900 mm if serving seats on one side only.

(6) The minimum clear width of each aisle shall be measured at the point in the aisle furthest from

- (a) an egress doorway referred to in Clause (12)(a),
- (b) an *exit* referred to in Clause (12)(b), or
- (c) an *exit* referred to in Sentence (13).

(7) Except for an aisle serving bleacher seats, where rows of seats discharge into an aisle, the minimum clear width required by Sentence (6) shall be increased by 25 mm for each metre of length of the aisle measured in the direction towards an *exit*.

(8) The width of a converging aisle shall be not less than the required width of the widest aisle plus 50% of the total required width of the remaining aisles that it serves.

(9) If rows of seats discharge directly into the converging aisle, the width required by Sentence (8) shall be increased by 25 mm for each metre of length of the aisle where the rows of seats discharge into the aisle.

(10) The width of an egress doorway or an *exit* leading directly from the seating area shall be not less than the required width of the widest aisle or converging aisle plus 50% of the total required width of the remaining aisles and converging aisles that it serves.

(11) Dead-end aisles shall be not more than 6 m long.

(12) Where a seating area is separated as required by Sentences 3.3.2.2.(1) and (2) or 3.3.2.2.(8), the length of travel by any aisle shall be not more than 45 m measured from the most remote point of the aisle to

- (a) an egress doorway in the required separation, or
- (b) an *exit* leading directly from the seating area.



(13) Where a seating area is not required to be separated by Sentences 3.3.2.2.(1) and (2) or 3.3.2.2.(8), the travel distance shall be not more than 45 m measured from the most remote point of the aisle to an *exit*.

(14) Side aisles shall be not less than 1 100 mm wide if seating is provided in conformance with Sentence 3.3.2.3.(5).

(15) An aisle that has a slope not more than 1 in 8 shall not be stepped.

(16) An aisle that slopes more than 1 in 8 shall be stepped.

(17) The passageway between rows of seats served by a stepped aisle shall be level at right angles to the line of travel.

(18) The riser of a step in an aisle shall be

- (a) not less than 110 mm high, and
- (b) not more than 200 mm high.

(19) Variations are permitted in riser height provided

- (a) the height of adjacent risers does not vary by more than 6 mm, and
- (b) the depth of a tread or a platform in the direction of travel is not less than 430 mm.

(20) Steps in an aisle shall

- (a) have a run not less than 230 mm exclusive of nosings,
- (b) have a tread depth not less than 250 mm,
- (c) extend to the adjacent rows of seats in a manner that will not create a hazard from tripping, and
- (d) have a finish on the treads conforming to Sentence 3.4.6.1.(1).

(21) The location of every riser in an aisle shall be made apparent from both directions of travel by strategically placed lighting or contrasting marking stripes.

(22) A platform in an aisle shall be level, except that a slope not more than 1 in 50 is permitted for a platform that is not less than 430 mm deep in the direction of *exit* travel.

(23) If a step is used at the entry to a row of seats from a stepped aisle, an unobstructed platform not less than 800 mm square shall be provided adjacent to the aisle.

(24) The finish of the surface of a platform in or adjacent to a stepped aisle shall conform to Sentence 3.4.6.1.(1).

### 3.3.2.5. Corridors

(1) Except as permitted by Sentences (2) to (4), a corridor used by the public in an *assembly occupancy* as an *access to exit* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(2) The *fire-resistance rating* of the *fire separation* required by Sentence (1) is permitted to be less than 1 h but not less than 45 min provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

(a) the floor assembly above the *floor area*, or

(b) the floor assembly below the *floor area*, if there is no floor assembly above.

(3) The *fire-resistance rating* required by Sentence (1) is permitted to be waived if the *floor area* in which the corridor is located is *sprinklered*.

(4) The *fire separation* required by Sentence (1) is permitted to be waived if the distance from any point in the *floor area* to an *exit* measured along the path of travel to an *exit* does not exceed the travel distance permitted by Article 3.4.2.5.

### 3.3.2.6. Doors

(1) A door equipped with a latching mechanism in an *access to exit* from a room or *suite of assembly occupancy* containing an *occupant load* more than 100 shall be equipped with a device that will release the latch and allow the door to swing wide open when a force not more than that specified in Sentence 3.8.3.3.(7) is applied to the device in the direction of travel to the *exit*.

### 3.3.2.7. Fixed Bench-Type Seats without Arms

(1) If fixed bench-type seats without arms are provided, the seat width per person shall be assumed to be 450 mm.

(2) The centre-to-centre spacing between rows of bench-type seats shall be not less than 760 mm if back rests are provided, and not less than 550 mm if back rests are not provided.

(3) A clear space of not less than 300 mm shall be provided between the back of each seat and the front of the seat immediately behind it.

### 3.3.2.8. Guards

(1) Except as required by Sentences (2) to (4) for bleacher seats, *guards* shall be installed in outdoor and indoor places of assembly with fixed seats so that

(a) at the fascia of every box, balcony or gallery where the seats extend to the edge, the height of *guards* is not less than

(i) 760 mm in front of the seats, and

(ii) 920 mm if located at the end of aisles or at the foot of steps,

(b) the height of *guards* along every cross aisle other than those adjacent to the fascia of every box, balcony or gallery is not less than 660 mm, except that *guards* need not be provided if the backs of the seats along the front side of the aisle are not less than 600 mm above the floor of the aisle, and

(c) where the seating is arranged in successive tiers and the height of rise between platforms is more than 450 mm, the height of *guards* is not less than 660 mm along the entire row of seats at the edge of the platform.

(2) The backs and ends of bleacher seats more than 1 200 mm above the ground or floor that are not adjacent to a wall shall be protected with a *guard*

(a) not less than 1 070 mm high above an adjacent aisle surface or foot rest, and

(b) not less than 920 mm high above the centre of an adjacent seat board.

(3) If the front of a bleacher is more than 600 mm above the ground or floor, it shall be protected with a *guard* not less than 840 mm high above the front foot rest.



(4) Openings through any *guard* which is required by Sentences (2) and (3) shall be of a size which will prevent the passage of a sphere having a diameter more than 300 mm.

### 3.3.2.9. Outdoor Places of Assembly

(1) A Group A, Division 4 *occupancy* and each tier or balcony that has a capacity of more than

- (a) 1 000 persons shall have not less than 3 separate *exits*, or
- (b) 4 000 persons shall have not less than 4 separate *exits*.

(2) In a Group A, Division 4 *occupancy*, every seat shall be located so that the travel distance is not more than 45 m measured along the path of travel from the seat to

- (a) the ground,
- (b) an *exit*,
- (c) an opening to a passageway leading from the seating area, or
- (d) a portal, a vomitory or any other opening through the seating deck structure.

(3) *Exits* from outdoor stadia or grandstands shall be located not more than 25 m apart.

(4) The capacity of a *means of egress* for a Group A, Division 4 *occupancy* shall conform to the requirements of Sentence 3.4.3.4.(3).

(5) Aisles in a Group A, Division 4 *occupancy*

- (a) shall be located so that there are not more than 20 seats between any seat and the nearest aisle,
- (b) shall be not less than 1 200 mm wide, except that an aisle serving less than 60 persons is permitted to be 750 mm wide, and
- (c) shall not have steps unless the slope of the aisle is more than 1 in 8.

(6) Except as permitted by Sentences 3.3.2.10.(1), (2) and (3), steps provided in an aisle shall

- (a) extend the full width of the aisle,
- (b) have risers not more than 230 mm high, and
- (c) have treads with a run not less than 250 mm.

### 3.3.2.10. Bleachers

(1) Steps provided in aisles of bleachers of the telescopic type shall

- (a) have risers not more than 250 mm high, and
- (b) have treads with a run not less than 280 mm.

(2) If the vertical distance between seating platforms in bleachers is more than 280 mm, an intermediate step shall be provided the full width of the aisle and proportioned to provide 2 equal risers between platforms.

(3) If the vertical distance between seating platforms in bleachers is more than 450 mm, 2 intermediate steps shall be provided the full width of the aisle so that there are 3 equal risers between platforms.

(4) If the passageway between rows of seats is not a closed deck, footboards shall be provided so that

- (a) the total width of the footboards shall be not less than three quarters of the centre-to-centre spacing between rows of seats, and
- (b) the spacing between footboard members shall be not more than 25 mm.

### 3.3.2.11. Libraries

(1) Except as permitted by Sentence (2), a library book storage room that is not normally accessible to the public shall be separated from the remainder of the *building* by a *fire separation* with a *fire-resistance rating* not less than 2 h if it

- (a) is more than 250 m<sup>2</sup> in area, or
- (b) contains book stacks that
  - (i) are more than 10 m high, or
  - (ii) penetrate more than one floor assembly.

(2) The *fire separation* required by Sentence (1) is not required if the book storage room is *sprinklered*.

(3) Open book shelves are permitted above and below a *mezzanine* floor in a library *building* provided the height of the shelves is not more than 2 100 mm but not more than 75% of the floor-to-ceiling height of the space above or below the *mezzanine* floor assembly.

### 3.3.2.12. Stages for Theatrical Performances

(1) A *stage* for theatrical performances and ancillary spaces, including workshops, dressing rooms and storage areas, shall be *sprinklered*.

(2) A *fire separation* with a *fire-resistance rating* not less than 1 h shall be provided between a *stage* for theatrical performances and ancillary spaces, including workshops, dressing rooms and storage areas.

(3) Except as permitted by Sentence (6), a *stage* for theatrical performances and ancillary spaces, including workshops, dressing rooms and storage areas, shall be separated from the seating area by a *fire separation* having a *fire-resistance rating* not less than 1 h, except for a proscenium opening protected with

- (a) a sprinkler deluge system conforming to the requirements of NFPA 13 "Standard for the Installation of Sprinkler Systems",
- (b) an unframed fire curtain if the opening is not more than 20 m wide, or
- (c) a semi-rigid fire curtain if the opening is more than 20 m wide.

(4) A fire curtain required by Sentence (3) shall be of a type designed to close

- (a) automatically upon the actuation of the sprinkler system,
- (b) automatically upon actuation of the fire alarm system,
- (c) manually by remote control devices located at the curtain control panel and at each side of the *stage*, and
- (d) automatically by heat-actuated devices.

(5) At least 2 vents for the purpose of venting fire and smoke to the outside of a *building* shall be provided above a *stage* designed for theatrical performances and shall

- (a) have an aggregate area not less than one eighth of the area of the *stage* behind the proscenium opening, and
- (b) be arranged to open automatically upon actuation of the sprinkler system.

(6) The *fire separation* referred to in Sentence (3) is not required between a *stage* and a seating area in a *floor area* that is *sprinklered*, provided a sprinkler deluge system is installed at the boundary between the *stage* and the seating area.

### 3.3.2.13. Risers for Stairs

(1) In a Group A, Division 2 *occupancy* used for the serving of food and beverages, an interior flight of stairs with fewer than 3 risers is permitted provided it

- (a) is not less than 900 mm wide,
- (b) is illuminated at all times that occupants are on the premises, and
- (c) has a handrail on each side.

### 3.3.3. Care or Detention Occupancy

#### 3.3.3.1. Scope

(1) This Subsection applies to *floor areas* or parts thereof used or intended for use as a *care or detention occupancy*.

#### 3.3.3.2. Fire Separations

(1) The *fire separation* required by Sentence 3.3.5.5.(1) between a *care or detention occupancy* and a *repair garage* shall have no openings.

(2) In a Group B, Division 3 *occupancy*, walls between sleeping rooms and adjacent rooms shall be constructed as *fire separations* having a *fire-resistance rating* not less than 1 h, except that the *fire-resistance rating* need not be more than 45 min where the floor assembly is not required to be more than 45 min.

(3) In a Group B, Division 3 *occupancy*, walls separating corridors serving sleeping rooms from adjacent rooms shall be constructed as *fire separations* having a *fire-resistance rating* not less than 1 h, except that the *fire-resistance rating* need not be more than 45 min where the floor assembly is not required to be more than 45 min.

#### 3.3.3.3. Corridors

(1) A corridor used by the public or serving patients or residents shall have no dead-end portion unless the area served by the dead-end portion has a second and separate *means of egress*.

(2) A corridor serving patients in a hospital shall be not less than 2 400 mm wide.

(3) A corridor serving residents who are not ambulatory in a Group B, Division 2 or 3 *occupancy* shall be not less than 1 650 mm wide.

- (4) Paired doors in a corridor serving patients or residents shall
  - (a) swing in opposite directions, the right hand door swinging in the direction of travel, and
  - (b) be not less than 1 100 mm wide.

#### 3.3.3.4. Doorway Width

(1) Except as permitted in Sentence 3.3.1.12.(11), the minimum clear width of doorways serving patients or residents shall be 1 050 mm.

#### 3.3.3.5. Hospitals and Nursing Homes

(1) *Floor areas* containing patients' or residents' sleeping rooms in a hospital or nursing home shall conform to Sentences (2) to (14).

(2) Except as permitted by Sentence (3), a *floor area* containing patients' or residents' sleeping rooms in a hospital or nursing home shall be divided into not less than 2 *fire compartments*, each not more than 1 000 m<sup>2</sup> in area.

(3) The *floor area* on either side of a *horizontal exit* conforming to Article 3.4.6.9. is permitted to be considered as a *fire compartment* in applying the requirements of this Article.

(4) Except as permitted by Sentence (5), *fire separations* separating *fire compartments* required by Sentence (2) shall have a *fire-resistance rating* not less than 1 h.

(5) The *fire-resistance rating* of a *fire separation* referred to in Sentence (4) is permitted to be less than 1 h but not less than 45 min provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

- (a) the floor assembly above the *floor area*, or
- (b) the floor assembly below the *floor area*, if there is no floor assembly above.

(6) A *closure* in a *fire separation* between *fire compartments* referred to in Sentence (2) shall be weatherstripped or otherwise designed and installed to retard the passage of smoke.

(7) The travel distance from any point within each *fire compartment* referred to in Sentence (2) to a door to an adjoining *fire compartment* shall be not more than 45 m.

(8) Each *fire compartment* referred to in Sentence (2) shall be capable of accommodating, in addition to its own occupants, the occupants of the largest adjacent *fire compartment* based on a clear floor space of 2.5 m<sup>2</sup> per patient or resident in the adjacent *fire compartment*.

(9) Except as permitted by Sentences (11) and (12), walls between patients' or residents' sleeping rooms and adjacent rooms shall be constructed as *fire separations* but are not required to have a *fire-resistance rating*.

(10) Except as permitted by Sentence (12), walls separating corridors serving patients' or residents' sleeping rooms from adjacent rooms shall be constructed as *fire separations* but are not required to have a *fire-resistance rating*.

(11) The *fire separation* requirements of Sentence (9) do not apply to walls within a group of intercommunicating patients' or residents' rooms, provided the group of rooms does not

- (a) contain more than 5 patients or residents, or
- (b) include storage, bathing or toilet facilities serving persons not occupying the group of rooms.

(12) A door in a *fire separation* required by Sentence (9) or Sentence (10) is permitted to be equipped with a roller latch.

(13) A *fire separation* required by Sentence (9) or Sentence (10) shall not contain any grilles, louvres or other openings.



**3.3.3.6. Protection for Special Care and Treatment Facilities**

(1) Compartments containing rooms such as operating rooms, recovery rooms, delivery rooms, intensive care units and critical care units, from which it is impracticable to move patients in an emergency, shall be

- (a) separated from adjacent spaces by *fire separations* having a *fire-resistance rating* not less than 1 h, and
- (b) provided with a mechanical air supply so that during a period of 2 h after the start of a fire in another space, the compartments will not contain more than 1% by volume of contaminated air from the fire area.

**3.3.3.7. Contained Use Areas**

(1) A *contained use area* shall conform to Sentences (2) to (4).

(2) A *contained use area* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(3) Except as permitted by Sentence (4), a *building* that includes a *contained use area* shall be *sprinklered*.

(4) A *contained use area*, in a *building* for which Articles 3.2.2.20. to 3.2.2.83. do not require the installation of an automatic sprinkler system, is not required to be *sprinklered* as required by Sentence (3) provided

- (a) the *building* is designed so that during a period of 2 h after the start of a fire in the *contained use area*, other *fire compartments* will not contain more than 1% by volume of contaminated air from the *contained use area*,
- (b) the *building* is designed so that during a period of 2 h after the start of a fire in another part of the *building*, the *contained use area* will not contain more than 1% by volume of contaminated air from the other part of the *building*,
- (c) all doors are designed to be remotely released in conformance with Sentence 3.3.1.12.(6), and
- (d) the *contained use area* does not contain any rooms lined with *combustible padding*.

**3.3.3.8. Handrails**

(1) Corridors and ramps used by residents in a nursing home shall be equipped with handrails on each side conforming to Sentences 3.4.6.4.(3), (4), (6), (7) and (8).

**3.3.4. Residential Occupancy****3.3.4.1. Scope**

(1) This Subsection applies to *floor areas* or parts thereof used or intended for use as *residential occupancies*.

**3.3.4.2. Fire Separations**

(1) Except as permitted by Sentences (2) and 3.2.2.9.(2), *suites* of *residential occupancy* shall be separated from each other and the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(2) The *fire-resistance rating* of the *fire separation* required by Sentence (1) is permitted to be less than 1 h but not less than 45 min

provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

- (a) the floor assembly above the *floor area*, or
- (b) the floor assembly below the *floor area*, if there is no floor assembly above.

(3) *Floor assemblies* within a *dwelling unit* need not be constructed as *fire separations* provided

- (a) the distance between the lowest floor level and the uppermost floor level within the *dwelling unit* is not more than 6 m, and
- (b) the *dwelling unit* is separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than
  - (i) 45 min if the *building* is *sprinklered* and is not more than 3 storeys in *building height*,
  - (ii) 1 h if the *building* is *sprinklered* and is more than 3 storeys in *building height*,
  - (iii) 1 h if the *building* is not *sprinklered* and is not more than 6 storeys in *building height*, or
  - (iv) 2 h if the *building* is not *sprinklered* and is more than 6 storeys in *building height*.

(4) The *fire-resistance rating* of the *fire separation* located between a *dwelling unit* and an attached *storage garage* need not conform to that required by Sentence 3.3.5.6.(1) provided

- (a) the *storage garage* contains not more than 5 vehicles,
- (b) the *dwelling unit* and the attached *storage garage* are *sprinklered*,
- (c) the *dwelling unit* is separated from the remainder of the *building* in conformance with Sentences (1), (2) and (3),
- (d) there are no air duct systems connecting the *storage garage* and the *dwelling unit*,
- (e) the construction between the *storage garage* and the *dwelling unit* provides an effective barrier to gas and exhaust fumes, and
- (f) every door between the *storage garage* and the *dwelling unit* is
  - (i) tight fitting and weather-stripped to provide an effective barrier against the passage of gas and exhaust fumes,
  - (ii) fitted with a self-closing device, and
  - (iii) not located in a room intended for sleeping.

(5) The *fire separation* required by Sentence 3.3.5.6.(1) is not required between a *dwelling unit* and an attached *storage garage*, serving that *dwelling unit* only, provided

- (a) the *dwelling unit* and its attached *storage garage* are separated from the remainder of the *building* in conformance with Sentences (1), (2) and (3),
- (b) there are no air duct systems connecting the *storage garage* and the *dwelling unit*,
- (c) the construction between the *storage garage* and the *dwelling unit* provides an effective barrier to gas and exhaust fumes, and
- (d) every door between the *storage garage* and the *dwelling unit* is



- (i) tight fitting and weather-stripped to provide an effective barrier against the passage of gas and exhaust fumes,
- (ii) fitted with a self-closing device, and
- (iii) not located in a room intended for sleeping.

### 3.3.4.3. Storage Rooms

(1) Sprinklers shall be installed in a storage room provided for the use of tenants in a *residential occupancy* within a *floor area* but not contained within a *suite*.

(2) Except as permitted by Sentence (3), a storage room referred to in Sentence (1) shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(3) The *fire-resistance rating* of the *fire separation* required by Sentence (2) is permitted to be less than 1 h but not less than 45 min provided the *fire-resistance rating* required by Subsection 3.2.2. is permitted to be less than 1 h for

- (a) the floor assembly above the *floor area*, or
- (b) the floor assembly below the *floor area*, if there is no floor assembly above.

### 3.3.4.4. Egress from Dwelling Units

(1) Single *storey dwelling units* in an apartment *building* need not lead to a *public corridor* or exterior passageway on the same *storey* provided the *dwelling units* are served by private stairways leading directly to a *public access to exit* on the *storey*

- (a) immediately above, and
- (b) immediately below.

(2) Except as permitted by Sentences (3), (4) and (5), a *dwelling unit* containing more than one *storey* shall have an *exit* door or an egress door opening directly into a *public access to exit* from the uppermost *storey* and from the lowest *storey* of the *dwelling unit* so that each *storey* is served by an *exit* or egress door located not more than 1 500 mm above or below its floor level.

(3) A single *exit* is permitted from a *dwelling unit* provided the *exit* is an exterior doorway not more than 1 500 mm above adjacent ground level and

- (a) it is not necessary to travel up or down more than one *storey* to reach the *exit* door, or
- (b) the uppermost floor level opens to a balcony not more than 6 m above adjacent ground level.

(4) An egress door from either the uppermost *storey* or the lowest *storey* in a *dwelling unit*, as required in Sentence (2), need not be provided

- (a) if that *storey* is served by a stairway that
  - (i) leads to a *public access to exit*,
  - (ii) has no direct access to any other *storey* in the *dwelling unit*, and

(iii) is separated from the other *storeys* in the *dwelling unit* by a *fire separation* having a *fire-resistance rating* of not less than 45 min,

- (b) if the *dwelling unit* has not more than 2 *storeys* above the first *storey* of the *building*, or
- (c) if it is not necessary to travel either more than 18 m, or more than 1 *storey* up or down to reach the egress door.

(5) An egress door from either the uppermost *storey* or the lowest *storey* in a *dwelling unit*, as required in Sentence (2), need not be provided

- (a) on the uppermost *storey* of a *dwelling unit* having not more than 2 *storeys* above the first *storey* of the *building*,
- (b) on each *storey* from which it is not necessary to travel either more than 18 m or more than 1 *storey* up or down within the *dwelling unit* to reach an egress door, or
- (c) where that *storey* is
  - (i) provided with a balcony conforming to Sentence (8),
  - (ii) not more than 2 *storeys* above or below the *dwelling unit* egress door, and
  - (iii) in a *building* that is not more than 6 *storeys* in *building height*.

(6) In a *building* of *residential occupancy* not more than 3 *storeys* in *building height*, a doorway from a *dwelling unit* is permitted to open directly into an *exit* stairway provided the *dwelling unit* has a second and separate *means of egress*.

(7) If a *dwelling unit* has a second and separate *means of egress*, one *means of egress* from a *dwelling unit* is permitted to pass through

- (a) an interior corridor served by a single *exit*,
- (b) an exterior balcony served by a single *exit* stairway, or
- (c) an exterior passageway served by a single *exit* stairway.

(8) Where a balcony is provided to meet the requirements of Sentence (3) or (5), the balcony shall have

- (a) a solid floor having a *fire-resistance rating* not less than that required for a floor assembly between *suites*, and
- (b) an area providing not less than 1.5 m<sup>2</sup> per *suite* occupant, based on *occupant load*, and a minimum dimension of 1 200 mm.

### 3.3.4.5. Automatic Locking Prohibition

(1) Except for *hotels*, a door opening onto a *public corridor* which provides *access to exit* from a *suite* shall be designed not to lock automatically.

### 3.3.4.6. Sound Transmission

(1) Sound transmission class ratings shall be determined in accordance with ASTM E413, "Classification for Rating Sound Insulation", using results from measurements in accordance with

- (a) ASTM E90, "Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions", or
- (b) ASTM E336, "Test Method for Measurement of Airborne Sound Insulation in Buildings".

(2) Except as required by Sentence (3), a *dwelling unit* shall be separated from every other space in the *building* in which noise may be generated by construction providing a sound transmission class rating not less than 50, measured in accordance with the standards referenced in Sentence (1).

(3) Construction separating a *dwelling unit* from an elevator hoistway or a refuse chute shall have a sound transmission class rating not less than 55, measured in accordance with the standards referenced in Sentence (1).

### 3.3.4.7. Stairs, Handrails and Guards for Dwelling Units

(1) Stairs, handrails and *guards* within a *dwelling unit* shall conform to the appropriate requirements in Section 9.8.

## 3.3.5. Industrial Occupancy

### 3.3.5.1. Scope

(1) This Subsection applies to *floor areas* or parts thereof used or intended for use as *industrial occupancies*.

### 3.3.5.2. Fire Extinguishing Systems

(1) In addition to other requirements in this Code for the installation of automatic fire extinguishing systems, an appropriate fire extinguishing system shall be installed in every *industrial occupancy floor area* to provide protection if required by

- (a) the Ontario Fire Code, or
- (b) the National Fire Code of Canada 1995, in the absence of provisions in the Ontario Fire Code.

### 3.3.5.3. Basements

(1) A *basement* shall not be used for the storage, manufacture or handling of volatile solids, liquids or gases that generate explosive air-vapour mixtures or for processes that involve explosive dusts.

(2) Entrances and *exits* to a *basement* and to rooms containing *building services* shall be separate from the remainder of the *building* in a *building* in which

- (a) the storage, manufacture or handling of volatile materials can generate explosive air-vapour mixtures, or
- (b) processes occur that produce explosive dusts.

(3) *Basements* and rooms referred to in Sentence (2) shall be separated from the remainder of the *building* with a vapour-tight separation.

### 3.3.5.4. Repair and Storage Garages

(1) If access is provided from a *storage garage* to a stair tower or elevator serving *occupancies* above the level of the *storage garage*, the access shall be through a vestibule conforming to Sentence 3.3.5.7.(3).

(2) Treads and landings in interior stairs that extend to the roof of a *storage garage* shall be designed to be free of accumulations of ice and snow.

(3) A mechanical *storage garage* not more than 4 *storeys* in *building height*, in which no persons other than parking attendants are permitted above the *street* floor level, need not have a *fire separation* between the *exits* and the remainder of the *building*.

(4) A *garage* shall be provided with natural or mechanical ventilation in conformance with the requirements of Subsection 6.2.2. to prevent excessive accumulation of carbon monoxide, exhaust fumes or flammable and toxic vapours.

(5) The clear height in a *storage garage* shall be not less than 2 000 mm.

(6) A continuous curb not less than 150 mm high and a guard not less than 1 070 mm high shall be provided at every *garage floor opening* and around the perimeter of every floor where the exterior walls are omitted.

(7) Except for *open-air storeys*, every *storey* of a *storage garage* or *repair garage* located below *grade* shall be *sprinklered*.

### 3.3.5.5. Repair Garage Separation

(1) A *repair garage* and any ancillary spaces serving it, including waiting rooms, reception rooms, tool and parts storage areas and supervisory office space, shall be separated from other *occupancies* by a *fire separation* having a *fire-resistance rating* not less than 2 h.

### 3.3.5.6. Storage Garage Separation

(1) Except as permitted by Sentences 3.3.4.2.(4) and (5), a *storage garage* shall be separated from other *occupancies* by a *fire separation* with a *fire-resistance rating* not less than 1.5 h.

### 3.3.5.7. Vestibules

(1) If access is provided through a *fire separation* between a *storage garage* and a Group A, Division 1 or Group B *occupancy*, the access shall be through a vestibule conforming to Sentence (3).

(2) In a *building* more than 3 *storeys* in *building height*, access through a *fire separation* between a *storage garage* and a Group A, Division 2, 3 or 4, or a Group C *occupancy*, shall be through a vestibule conforming to Sentence (3).

(3) If access is provided through a vestibule, as required by Sentences (1), (2) and 3.3.5.4.(1), the vestibule shall

- (a) be not less than 1 800 mm long,
- (b) be ventilated
  - (i) naturally to outside air by a vent that has an unobstructed area of not less than 0.1 m<sup>2</sup> for each door that opens into the vestibule but not less than 0.4 m<sup>2</sup>, or
  - (ii) mechanically at a rate of 14 m<sup>3</sup>/h for each square metre of vestibule floor surface area, and
- (c) have openings between the vestibule and an adjoining *occupancy* provided with self-closing doors with no hold-open devices.

### 3.3.5.8. Reserved

### 3.3.5.9. Reserved

### 3.3.5.10. Toe-Boards Required

(1) Where tools or other objects could fall from the floor of an upper level to a lower level in a room or space intended for use as a Group F *occupancy*, the edge of the floor at the upper level shall be provided with a toe-board extending from the floor surface to a height at least 125 mm above the floor surface.

## Section 3.4. Exits

### 3.4.1. General

#### 3.4.1.1. Scope

(1) *Exit* facilities complying with this Section shall be provided from every *floor area* which is intended for *occupancy*.

**3.4.1.2. Separation of Exits**

(1) Except as permitted by Sentence (2), if more than one *exit* is required from a *floor area*, each *exit* shall be separate from every other *exit* leading from that *floor area*.

(2) If more than 2 *exits* are provided from a *floor area*, *exits* are permitted to converge in conformance with Sentence 3.4.3.2.(2), provided the cumulative capacity of the converging *exits* does not contribute more than 50% of the total required *exit* width for the *floor area*.

**3.4.1.3. Access to Exits**

(1) *Access to exits* shall conform to Section 3.3.

**3.4.1.4. Types of Exit**

(1) Subject to the requirements of this Section, an *exit* from any *floor area* shall be one of the following, used singly or in combination:

- (a) an exterior doorway,
- (b) an exterior passageway,
- (c) an exterior ramp,
- (d) an exterior stairway,
- (e) a fire escape (conforming to Subsection 3.4.7.),
- (f) a *horizontal exit*,
- (g) an interior passageway,
- (h) an interior ramp, or
- (i) an interior stairway.

**3.4.1.5. Exterior Exit Passageways**

(1) Access to an exterior *exit* passageway from a *floor area* shall be through *exit* doors at the floor level.

(2) Every exterior *exit* passageway which has a drop of more than 500 mm on any side shall have *guards* on the open sides not less than 1 070 mm high.

**3.4.1.6. Restricted Use of Horizontal Exits**

(1) Except as permitted by Sentence (2), *horizontal exits* shall not comprise more than one half of the required number of *exits* from any *floor area*.

(2) In a hospital or nursing home, *horizontal exits* serving patients' or residents' sleeping rooms shall comprise not more than two thirds of the required number of *exits* from any *floor area*.

(3) Where an elementary or secondary school is subdivided by a *firewall*, a *horizontal exit* shall not serve as an *exit* but is permitted to serve as an *access to exit*.

**3.4.1.7. Slide Escapes**

(1) A slide escape shall not be erected on any *building* as a required *exit*, but is permitted to be provided as an additional egress facility if unusual hazards are foreseen.

**3.4.1.8. Transparent Doors and Panels**

(1) Glass and transparent panels in an *exit* shall conform to the appropriate requirements of Article 3.3.1.18. for glass and transparent panels in an *access to exit*.

**3.4.1.9. Mirrors near Exits**

(1) No mirror shall be placed in or adjacent to any *exit* in a manner that would confuse the direction of *exit*.

**3.4.1.10. Combustible Glazing in Exits**

(1) *Combustible* glazing is not permitted in wall or ceiling assemblies or in *closures* used to construct an *exit* enclosure.

**3.4.1.11. Exterior Stairway for Nursing Home**

(1) No open exterior stairway shall serve as a *means of egress* for residents above the second floor of a nursing home.

**3.4.2. Number and Location of Exits from Floor Areas****3.4.2.1. Minimum Number of Exits**

(1) Except as permitted by Sentences (2) to (4) and (6), every *floor area* intended for *occupancy* shall be served by at least 2 *exits*.

(2) A *floor area* in a *building* not more than 2 *storeys* in *building height*, is permitted to be served by one *exit* provided the total *occupant load* served by the *exit* is not more than 60, and

- (a) in a *floor area* that is not *sprinklered*, the *floor area* and the travel distance are not more than the values in Table 3.4.2.1.A., or
- (b) in a *floor area* that is *sprinklered*,
  - (i) the travel distance is not more than 25 m, and
  - (ii) the *floor area* is not more than the value in Table 3.4.2.1.B.

Table 3.4.2.1.A.

**Criteria for One Exit, Floor Area not Sprinklered**

Forming Part of Sentence 3.4.2.1.(2)

Occupancy of Floor Area	Maximum Floor Area, m <sup>2</sup>	Maximum Travel Distance, m
Group A	150	15
Group C	125	25
Group D	200	25
Group E	200	25
Group F, Division 2	200	25
Group F, Division 3	200	25
Column 1	2	3



Table 3.4.2.1.B.

## Criteria for One Exit, Floor Area Sprinklered

Forming Part of Sentence 3.4.2.1.(2)

Occupancy of Floor Area	Maximum Floor Area, m <sup>2</sup>
Group A	200
Group B	100
Group C	150
Group D	300
Group E	200
Group F, Division 2	200
Group F, Division 3	300
Column 1	2

(3) Except as permitted by Sentence (4), if Sentence (2) permits a single exit from a floor area classified as Group B or Group C occupancy, the exit shall be an exterior doorway not more than 1 500 mm above adjacent ground level.

(4) A floor area containing only dwelling units having access to exit conforming to Sentences 3.3.4.4.(1) to (4) need not comply with Sentences (1) or (3).

(5) Exits are not required directly from rooftop enclosures that are provided with access to exits in conformance with Sentences 3.3.1.3.(5) and (6).

(6) Every room containing an assembly occupancy serving a hotel, and located in the building containing the hotel, shall be provided with not less than

(a) 3 separate egress doorways from the room where the occupant load is more than 600 persons, and

(b) 4 separate egress doorways from the room where the occupant load is more than 1000 persons.

(7) Each egress doorway in Sentence (6) shall be considered as contributing not more than

(a) one third of the required width where 3 egress doorways are required, and

(b) one fourth of the required width where 4 egress doorways are required.

## 3.4.2.2. Mezzanine Exiting

(1) Except as permitted by Sentences (2), (3) or (4), a mezzanine shall be provided with exits on the same basis as required for floor areas by this Section.

(2) A mezzanine need not conform to Sentence (1) provided Article 3.2.8.1. does not require it to terminate at a vertical fire separation.

(3) In a floor area that is not sprinklered, a mezzanine need not conform to Sentence (1) where Article 3.2.8.1. does require it to terminate at a vertical fire separation provided the total occupant load of the mezzanine is not more than 60 and

(a) the area of the mezzanine does not exceed the area limits for rooms and suites in Table 3.3.1.5.A., and

(b) the distance limits in Table 3.3.1.5.A. are not exceeded from any point on the mezzanine to

(i) the egress doorway from the room in which the mezzanine is located if that room has a single egress doorway, or

(ii) an egress facility leading from the mezzanine if the room in which the mezzanine is located has 2 egress doorways provided in conformance with Subsection 3.3.1.

(4) In a floor area that is sprinklered, a mezzanine need not conform to Sentence (1) where Article 3.2.8.1. does require it to terminate at a vertical fire separation provided the total occupant load of the mezzanine is not more than 60 and

(a) the area of the mezzanine does not exceed the area limits for rooms and suites in Table 3.3.1.5.B., and

(b) the distance of travel is not more than 25 m when measured from any point on the mezzanine to

(i) the egress doorway from the room in which the mezzanine is located if that room has a single egress doorway, or

(ii) an egress facility leading from the mezzanine if the room in which the mezzanine is located has 2 egress doorways provided in conformance with Subsection 3.3.1.

## 3.4.2.3. Distance between Exits

(1) Except for a floor area that is divided so that not less than one third of the floor area is on one side of a fire separation and it is necessary to pass through the fire separation to travel from one exit to another exit, the least distance between 2 required exits from a floor area shall be

(a) one half the maximum diagonal dimension of the floor area, but need not be more than 9 m for a floor area having a public corridor, or

(b) one half the maximum diagonal dimension of the floor area, but not less than 9 m for all other floor areas.

(2) The minimum distance between exits referred to in Sentence (1) shall be the shortest distance that smoke would have to travel between the exits, assuming that the smoke will not penetrate an intervening fire separation.

## 3.4.2.4. Travel Distance

(1) Except as permitted by Sentence (2), for the purposes of this Subsection, travel distance means the distance from any point in the floor area to an exit measured along the path of travel to the exit.

(2) The travel distance from a suite or a room not within a suite is permitted to be measured from an egress door of the suite or room to the nearest exit provided

(a) the suite or room is separated from the remainder of the floor area by a fire separation

(i) having a fire-resistance rating not less than 45 min in a floor area that is not sprinklered, or

(ii) which is not required to have a fire-resistance rating, in a floor area that is sprinklered, and

(b) the egress door opens onto

(i) an exterior passageway,

- (ii) a corridor used by the public that is separated from the remainder of the *floor area* in conformance with the requirements in Article 3.3.1.4. for the separation of *public corridors*, or

- (iii) a *public corridor* that is separated from the remainder of the *floor area* in conformance with Article 3.3.1.4.

(3) Travel distance to an *exit* shall be not more than 50 m from any point in a *service space* referred to in Sentence 3.2.1.1.(7).

(4) If there is a *firewall* in an elementary or secondary school, the travel distance shall not be measured to a door in the *firewall*, but shall be measured to an exterior *exit* door or an *exit* door to a stairway.

#### 3.4.2.5. Location of Exits

(1) Except as permitted by Sentences (2), (3) and 3.3.2.4.(6), if more than one *exit* is required from a *floor area*, the *exits* shall be located so that the travel distance to at least one *exit* shall be not more than

- (a) 25 m in a *high hazard industrial occupancy*,
- (b) 40 m in a *business and personal services occupancy*,
- (c) 45 m in a *floor area* that contains an *occupancy* other than a *high hazard industrial occupancy*, provided it is *sprinklered*,
- (d) 105 m in any *floor area*, served by a *public corridor*, in which rooms and *suites* are not separated from the remainder of the *floor area* by a fire separation, provided
  - (i) the *public corridor* is not less than 9 m wide,
  - (ii) the ceiling height in the *public corridor* is not less than 4 m above all floor surfaces,
  - (iii) the *building* is *sprinklered*, and
  - (iv) not more than one half of the required egress doorways from a room or *suite* open into the *public corridor* if the room or *suite* is required to have more than one egress doorway,
- (e) except as permitted by Sentence (5), 60 m in any *storage garage* that conforms to the requirements of Article 3.2.2.83., and
- (f) 30 m in any *floor area* other than those referred to in Clauses (a) to (e).

(2) Except for a *high hazard industrial occupancy*, Sentence (1) need not apply if *exits* are placed along the perimeter of the *floor area* and are not more than 60 m apart, measured along the perimeter, provided each main aisle in the *floor area* leads directly to an *exit*.

(3) If more than one *exit* is required, every *exit* shall be considered as contributing not more than one half of the required *exit* width.

(4) *Exits* shall be located and arranged so that they are clearly visible or their locations are clearly indicated and they are accessible at all times.

(5) Not more than 2 *exits* located remote from each other are required in a *storage garage* conforming to Article 3.2.2.83. provided persons other than parking attendants are not permitted above the *street* floor level.

#### 3.4.3. Width and Height of Exits

##### 3.4.3.1. Exit Width

(1) The aggregate width of required *exits* shall be not less than the value determined in conformance with Sentence (2) and Articles 3.4.3.2. to 3.4.3.5.

(2) The required width of an *exit* shall be not less than

- (a) 1 100 mm for
  - (i) corridors and passageways, and
  - (ii) stairs and ramps that serve more than 3 *storeys* above *grade* or more than one *storey* below *grade*,
- (b) 900 mm for stairs and ramps that serve not more than 3 *storeys* above *grade* or not more than one *storey* below *grade*,
- (c) 1 650 mm for stairs and ramps serving patients' or residents' sleeping rooms in a Group B, Division 2 or 3 *occupancy*,
- (d) 1 050 mm for doorways serving patients' or residents' sleeping rooms, and
- (e) 790 mm for doorways not serving patients' or residents' sleeping rooms.

(3) Except as required by Article 3.4.3.3., the required *exit* width need not be cumulative in an *exit* serving 2 or more *floor areas* located one above the other.

##### 3.4.3.2. Exit Width Based on Occupant Load

(1) For the purpose of determining aggregate width of required *exits*, the *occupant load* of every room or *floor area* shall be determined in conformance with Subsection 3.1.16.

(2) Except as permitted by Sentence 3.4.3.1.(3), the required *exit* width shall be cumulative if 2 or more *exits* converge.

##### 3.4.3.3. Exits from Interconnected Floor Space

(1) The required *exit* width for an *exit* stair in an assembly hall or *theatre* serving more than one balcony level shall conform to the appropriate requirements for stairs serving *interconnected floor spaces* in Article 3.2.8.4.

(2) *Exit* stairs that serve *interconnected floor spaces* as provided in Articles 3.2.8.3. to 3.2.8.11. shall conform to the requirements in Article 3.2.8.4. and in this Section.

##### 3.4.3.4. Exit Capacity

(1) Except as permitted by Sentence (3), the aggregate required width of *exits* serving *floor areas* intended for *assembly occupancies*, *residential occupancies*, *business and personal services occupancies*, *mercantile occupancies*, and *industrial occupancies* shall be determined by multiplying the *occupant load* of the area served by

- (a) 6.1 mm per person for ramps with a slope not more than 1 in 8, doorways, corridors and passageways,
- (b) 8 mm per person for a stair consisting of steps whose rise is not more than 180 mm and whose run is not less than 280 mm, or
- (c) 9.2 mm per person for
  - (i) ramps with a slope more than 1 in 8, or



- (ii) stairs, other than stairs conforming to Clause (b).

(2) The aggregate required width of *exits* serving *floor areas* intended for *care or detention occupancy* shall be determined by multiplying the occupant load of the area served by 18.4 mm per person.

(3) The required width of *means of egress* serving a Group A, Division 4 *occupancy* shall be determined by multiplying the *occupant load* of the area served by

- (a) 1.8 mm per person for

- (i) aisles,

- (ii) stairs other than *exit* stairs, and

- (iii) ramps and passageways in vomitories and *exits*, and

- (b) 2.4 mm per person for *exit* stairs.

#### 3.4.3.5. Exit Width Reduction

(1) Except as permitted by Sentences (2) to (4), no fixture, turnstile or construction shall project into or be fixed within the required width of an *exit*.

(2) *Exit* doors shall be hung so that, when open, they shall neither diminish nor obstruct the required width of the *exit* by more than 50 mm for each door leaf.

(3) Swinging doors in their swing shall not reduce the required width of *exit* stairs or landings to less than 750 mm or reduce the width of an *exit* passageway to less than the minimum required width.

(4) Handrails and construction below handrails are permitted to project into the required width of *means of egress* but the projections shall be not more than 100 mm on each side of the required width.

(5) In an elementary or secondary school, where a stair lift is installed in an *exit* stair, an intermediate handrail shall be installed between the path of travel of the stair lift and the remainder of the stair to ensure that the stair lift will not reduce the required width of the *exit* stair.

#### 3.4.3.6. Headroom Clearance

(1) Except as permitted by Sentences (2) to (4), every *exit* shall have a headroom clearance of not less than 2 100 mm.

(2) The headroom clearance for stairways measured vertically above any landing or the nosing of any stair tread shall be not less than 2 050 mm.

(3) The headroom clearance for doorways shall be not less than 2 030 mm.

(4) No door closer or other device shall be installed so as to reduce the headroom clearance of a doorway to less than 1 980 mm.

### 3.4.4. Fire Separation of Exits

#### 3.4.4.1. Fire-Resistance Rating of Exit Separations

(1) Except as permitted by Sentences (2), (4), 3.3.5.4.(3), 3.4.4.2.(2) and 3.4.4.3.(1), every *exit* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than that required by Subsection 3.2.2., but not less than 45 min, for

- (a) the floor assembly above the *storey*, or

- (b) the floor assembly below the *storey*, if there is no floor assembly above.

(2) The *fire-resistance rating* of the *fire separation* referred to in Sentence (1) need not be more than 2 h.

(3) If an *exit* stair in an assembly hall or *theatre* serves more than one balcony level, the *exit* stair shall be separated from the remainder of the *building* in conformance with Sentence (1).

(4) The path of *exit* travel may lead from an *exit* door or *exit* enclosure through *open air* parking that is located below a roof or floor assembly that is part of the *building* served by the *exit* door or *exit* enclosure where

- (a) the portion of the path of *exit* travel that leads through the *open air* parking is not more than 9 m in length measured from the *exit* door to a point at ground level at the perimeter of the *building*,

- (b) measures are taken to prevent vehicles intended to park in spaces adjacent to the path of *exit* travel from encroaching on the path of *exit* travel, and

- (c) an alternate *means of egress* not leading through the *open air* parking is available from the interior side of the door opening onto the path of *exit* travel through the *open air* parking area.

#### 3.4.4.2. Exits through Lobbies

(1) Except as permitted by Sentence (2), no *exit* from a *floor area* above or below the *first storey* shall lead through a lobby.

(2) Not more than one *exit* from a *floor area* is permitted to lead through a lobby provided

- (a) the lobby floor is not more than 4.5 m above *grade*,

- (b) the path of travel through the lobby to the outdoors is not more than 15 m,

- (c) the adjacent rooms or premises having direct access to the lobby do not contain a *residential occupancy* or an *industrial occupancy*, except that *dwelling units* may open directly onto the lobby where

- (i) from the interior of the *exit* stair which opens onto the lobby there is alternate *means of egress* not leading through the lobby and such *means of egress* is entirely within the same *storey* as the lobby, or

- (ii) the *floor area* is *sprinklered*.

- (d) except as required by Clause (g), the lobby is not located within an *interconnected floor space* other than as described in Sentence 3.2.8.2.(6),

- (e) the lobby conforms to the requirements for *exits*, except that

- (i) rooms other than *service rooms* and storage rooms are permitted to open onto the lobby,

- (ii) the *fire separation* between the lobby and a room used for the sole purpose of control and supervision of the building need not have a *fire-resistance rating*, and

- (iii) the *fire separation* between the lobby and adjacent *occupancies* that are permitted to open onto the lobby need not have a *fire-resistance rating* provided the lobby and adjacent *occupancies* are *sprinklered*,

- (f) a *fire separation*, constructed in accordance with Sentence 3.4.4.1.(1), is maintained between the lobby and any *exit* permitted by this Sentence to lead through the lobby, and



- (g) that if the *exit* serves a *hotel*, the lobby is not located within an *interconnected floor space*.

#### 3.4.4.3. Exterior Passageway Exceptions

- (1) The requirements of Sentences 3.4.4.1.(1) and 3.2.3.12.(1) and (3) do not apply to an exterior *exit* passageway provided

- (a) not less than 50% of the exterior side is open to the outdoors, and
- (b) an *exit* stair is provided at each end of the passageway.

#### 3.4.4.4. Integrity of Exits

- (1) A *fire separation* that separates an *exit* from the remainder of the *building* shall have no openings except for

- (a) standpipe and sprinkler piping,
- (b) electrical wires and cables, totally enclosed *noncombustible* raceways and *noncombustible* piping that serve only the *exit*,
- (c) openings required by the provisions of Subsection 3.2.6.,
- (d) *exit* doorways, and
- (e) wired glass and glass block permitted by Article 3.1.8.14.

- (2) *Exits* within scissors stairs and other contiguous *exit* stairways shall be separated from each other by a smoke-tight *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly through which they pass.

- (3) *Fire separations* separating contiguous stairs described in Sentence (2) shall not be pierced by doorways, ductwork, piping or any other openings that affect the continuity of the separation.

- (4) A fuel-fired *appliance* shall not be installed in an *exit*.

- (5) An *exit* shall not be used as a *plenum* for a heating, ventilating or air-conditioning system.

- (6) An *exit* shall be designed for no purpose other than for exiting, except that an *exit* is permitted also to be designed to serve as an access to a *floor area*.

- (7) A *service room* shall not open directly into an *exit*.

- (8) Storage rooms, washrooms, toilet rooms, laundry rooms and similar ancillary rooms shall not open directly into an *exit*.

- (9) *Service spaces* referred to in Sentence 3.2.1.1.(7) shall not open directly into an *exit*.

- (10) In elementary and secondary schools, an *exit* shall be designed so that it does not serve as an access from one portion of a *floor area* to another portion of the same *floor area*.

#### 3.4.5. Exit Signs

##### 3.4.5.1. Exit Signage

- (1) Except as required by Sentence (7), every *exit* door other than the main entrance to a room or *building* shall have an *exit* sign placed over or adjacent to it if the *exit* serves

- (a) a *building* more than 2 storeys in *building height*,
- (b) a *building* having an *occupant load* more than 150, or

- (c) a room or *floor area* that has a fire escape as part of a required *means of egress*.

- (2) Except as provided in Sentence (9), every *exit* sign shall

- (a) be visible from the *exit* approach,
- (b) have the word EXIT or the words EXIT/SORTIE displayed in plain legible letters, and
- (c) be illuminated continuously while the *building* is occupied.

- (3) *Exit* signs shall consist of red letters on a contrasting background or a red background with contrasting letters, with the letters having a 19 mm stroke and a height not less than

- (a) 114 mm when internally illuminated, and
- (b) 150 mm when externally illuminated.

- (4) If illumination of an *exit* sign is provided from an electrical circuit, that circuit shall

- (a) serve no equipment other than emergency equipment, and
- (b) be connected to an emergency power supply as described in Sentence 3.2.7.4.(1)

- (5) If necessary, the direction of egress in *public corridors* and passageways shall be indicated by a sign conforming to Sentences (2), (3) and (4) with a suitable arrow or pointer indicating the direction of egress.

- (6) Except for egress doorways described in Sentence 3.3.2.3.(4) and except for the main entrance door, an *exit* sign conforming to Sentences (2), (3) and (4) shall be placed over or adjacent to every egress doorway from rooms with an *occupant load* more than 60 in Group A, Division 1 *occupancies*, dance halls, licensed beverage establishments and other similar *occupancies* that, when occupied, have lighting levels below that which would provide easy identification of the egress doorway.

- (7) Except for *suite* doors opening directly to the exterior, every *exit* serving a *hotel* shall have an *exit* sign placed over or adjacent to it.

- (8) If an *exit* sign having the word EXIT is installed in conformance with this Article, an additional sign displaying the word SORTIE is permitted to be installed.

#### 3.4.5.2. Signs within Exit Facilities

- (1) In a *building* more than 2 storeys in *building height*, any part of an *exit* ramp or stair that continues past an exterior *exit* door down to a *basement* shall be clearly marked.

- (2) An *exit* stair serving a *building* more than 6 storeys in *building height* shall be clearly marked by signs indicating that it does not lead to an *exit* at the roof level.

#### 3.4.6. Types of Exit Facilities

##### 3.4.6.1. Slip Resistance of Ramps and Stairs

- (1) The surfaces of ramps, landings and treads
- (a) shall have a finish that is slip resistant, and
  - (b) if accessible to the public, shall have either a colour contrast or a distinctive pattern to demarcate the leading edge of the tread and the leading edge of the landing, as well as the beginning and end of a ramp.

(2) Treads and landings of exterior *exit* stairs shall be designed to be free of ice and snow accumulations if the stairs

- (a) are more than 10 m high, or
- (b) serve a *hotel*.

### 3.4.6.2. Minimum Number of Risers

(1) Except as permitted by Sentence 3.3.2.13.(1), every flight of interior stairs shall have not less than 3 risers.

### 3.4.6.3. Landings and Maximum Vertical Rise of Stair Flights

(1) No flight of stairs shall have a vertical rise of more than 3.7 m between floors or landings, except that a flight of stairs serving as an *exit* in a Group B, Division 2 or 3 *occupancy* shall have a vertical rise not more than 2 400 mm between floors or landings.

(2) Except as provided in Sentence (6), the length and width of a landing shall be at least the width of the stairway in which it occurs, except that in a straight run the length of the landing need not be more than 1 100 mm.

(3) Where a doorway or stairway empties onto a ramp through a side wall, there shall be a level area extending across the full width of the ramp, and for a distance of 300 mm on either side of the wall opening, or on one side if the opening abuts on an end wall.

(4) Where a doorway or stairway empties onto a ramp through an end wall, there shall be a level area extending across the full width of the ramp and along its length for not less than 900 mm.

(5) A landing shall be provided at the top and bottom of every flight of stairs.

(6) Where the direction of *exit* travel changes at a landing, the landing is permitted to be chamfered or curved in plan, provided the required width of the stair is maintained where measured perpendicular to the direction of *exit* travel across the landing.

### 3.4.6.4. Handrails

(1) An *exit* ramp or stairway shall have a handrail on at least one side, and if 1 100 mm or more in width, shall have handrails on both sides.

(2) If the required width of a ramp or flight of stairs is more than 2 200 mm, one or more intermediate handrails continuous between landings shall be provided, and located so that there will be not more than 1 650 mm between handrails.

(3) Handrails shall be continuously graspable along their entire length and shall have

- (a) a circular cross-section with an outside diameter not less than 30 mm and not more than 50 mm, or
- (b) any non-circular shape with a graspable portion that has a perimeter not less than 100 mm and not more than 155 mm and whose largest cross-sectional dimension is not more than 57 mm.

(4) Handrails on stairs and ramps shall be not less than 865 mm and not more than 965 mm high, measured vertically from a line drawn through the outside edges of the stair nosing or from the surface of the ramp, except that handrails not meeting these requirements are permitted provided they are installed in addition to the required handrail.

(5) Except as required by Sentence (10), at least one handrail shall be continuous throughout the length of the stairway, including landings, except where interrupted by doorways or newels at changes in direction.

(6) Handrails shall be terminated in a manner which will not obstruct pedestrian travel or create a hazard.

(7) At least one handrail at the side of a stairway or ramp shall extend horizontally not less than 300 mm beyond the top and bottom of the stairway or ramp.

(8) A clearance of not less than 40 mm shall be provided between a handrail and any wall to which it is fastened.

(9) Handrails and their supports shall be designed and constructed to withstand the loading values obtained from the nonconcurrent application of

- (a) a concentrated load not less than 0.9 kN applied at any point and in any direction for all handrails, and
- (b) a uniform load not less than 0.7 kN/m applied in any direction to handrails not located within *dwelling units*.

(10) In a nursing home, a home for the aged and a Group B, Division 3 *occupancy*, a continuous handrail shall be provided on both sides of a stairway throughout the length of the stairway, including landings, except where a handrail is interrupted by doorways or newels at changes in direction.

### 3.4.6.5. Guards

(1) Every *exit* shall have a wall or a well-secured *guard* on each side.

(2) Except as required by Sentence (4), the height of *guards* for *exit* stairs shall be not less than 920 mm measured vertically to the top of the *guard* from a line drawn through the outside edges of the stair nosings and 1 070 mm around landings.

(3) *Exit* ramps and their landings shall be protected with *guards* not less than 1 070 mm measured vertically to the top of the *guard* from the ramp surface where the difference in elevation between the adjacent ground or floor level and the ramp is more than 600 mm.

(4) The height of *guards* for exterior stairs and landings more than 10 m above adjacent ground level shall be not less than 1 500 mm measured vertically to the top of the *guard* from a line drawn through the outside edges of the stair nosings.

(5) Except as provided in Sentence (6), openings through any *guard* which is required by Sentence (1) shall be of a size which will prevent the passage of a sphere having a diameter more than 100 mm unless it can be shown that the location and size of openings which exceed this limit do not represent a hazard.

(6) Openings through any *guard* which is required by Sentence (1) and which is installed in a *building of industrial occupancy* shall be of a size which will prevent the passage of a sphere having a diameter more than 200 mm unless it can be shown that the location and size of openings which exceed this limit do not represent a hazard.

(7) In a stairway, a window for which the distance measured vertically between the bottom of the window and a line drawn through the outside edges of the stair nosings is less than 900 mm, or a window that extends to less than 1 070 mm above the landing, shall

- (a) be protected by a *guard* that is
  - (i) located approximately 900 mm above a line drawn through the outside edges of the stair nosings, or



- (ii) not less than 1 070 mm high measured to the top of the guard from the surface of the landing, or

- (b) be fixed in position and designed to resist the lateral design loads specified for *guards* and walls in Articles 4.1.10.1. and 4.1.10.3.

(8) Unless it can be shown that the location and size of openings do not present a hazard, a *guard* shall be designed so that no member, attachment or opening located between 140 mm and 900 mm above the level being protected by the *guard* will facilitate climbing.

#### 3.4.6.6. Ramp Slope

(1) Except as required for aisles by Article 3.3.2.4., the maximum slope of a ramp shall be

- (a) 1 in 10 in any *assembly occupancy, care or detention occupancy or residential occupancy*,
- (b) 1 in 6 in rooms or *floor areas* classified as *mercantile occupancy or industrial occupancy*,
- (c) 1 in 8 in any other *floor area*, and
- (d) 1 in 10 for an exterior ramp.

#### 3.4.6.7. Treads and Risers

(1) Except as permitted for *dwelling units* and by Sentence 3.4.7.5.(1) for fire escapes, steps for stairs shall have a run of not less than 255 mm and not more than 355 mm between successive steps.

(2) Steps for stairs referred to in Sentence (1) shall have a rise between successive treads not less than 125 mm and not more than 200 mm.

(3) Treads and risers in every *exit* stair, except a fire escape stair, shall have uniform run and rise in any one flight, and shall not alter significantly in run and rise in successive flights in any stair system.

(4) The leading edge of a stair tread shall have either a radius or a bevel between 8 mm and 13 mm in horizontal dimension.

(5) The front edge of stair treads in *exits* and public *access to exits* shall be at right angles to the direction of *exit* travel.

#### 3.4.6.8. Curved Stairs

(1) Except as permitted by Sentence (2), tapered treads shall not be used in an *exit*.

(2) A curved stair used as an *exit* shall have

- (a) a handrail on each side,
- (b) treads with a minimum run of 240 mm exclusive of nosings,
- (c) treads that conform to Article 3.4.6.7. where they are measured 230 mm away from the handrail at the narrow end of the tread, and
- (d) an inside radius that is not less than twice the stair width.

#### 3.4.6.9. Horizontal Exits

(1) Except in an elementary or secondary school which is subdivided by a *firewall*, the *floor area* on each side of a *horizontal exit* shall be sufficient to accommodate the occupants of both *floor areas*,

allowing not less than 0.5 m<sup>2</sup> of clear floor space per person, except that 1.5 m<sup>2</sup> shall be provided for each person in a wheelchair and 2.5 m<sup>2</sup> for each patient in bed.

(2) If vestibules, enclosed balconies or bridges are used as parts of a *horizontal exit*, their clear width shall be not less than that of the *exit* doorways opening into them, except that handrails are not permitted to project into this clear width more than 100 mm.

(3) In a *horizontal exit* where there is a difference in level between the connected *floor areas*, slopes not more than those specified for ramps in Article 3.4.6.6. are permitted to be used.

(4) No stairs or steps shall be used at a *horizontal exit*.

(5) If 2 doors are provided in a *horizontal exit* that comprises a part of the required number of *exits* from the *floor areas* on both sides of the *exit*

(a) the doors shall be mounted adjacent to each other with the door on the right side in the direction of travel through the *horizontal exit* swinging in the direction of travel through the *horizontal exit*, and

(b) signs shall be provided on each side of the *horizontal exit* to indicate the door that swings in the direction of travel from that side.

(6) If a *horizontal exit* utilizes bridges between *buildings* or outside balconies, the bridges or balconies shall conform to Article 3.2.3.18.

(7) Any change in floor level from one side of a *horizontal exit* to the other side shall not exceed 2 000 mm.

#### 3.4.6.10. Doors

(1) The distance between a stair riser and the leading edge of a door during its swing shall be not less than 300 mm.

(2) No *exit* door shall open directly onto a step except that, if there is danger of blockage from ice or snow, an *exit* door is permitted to open onto not more than one step which shall be not more than 150 mm high.

(3) *Exit* doors shall be clearly identifiable.

(4) No door leaf in an *exit* doorway with more than one leaf shall be less than 600 mm wide.

#### 3.4.6.11. Direction of Door Swing

(1) Except as permitted by Sentences (2), (3) and Article 3.4.6.13., every *exit* door shall

- (a) open in the direction of *exit* travel, and
- (b) swing on its vertical axis.

(2) A door serving a single *dwelling unit* shall swing on its vertical axis.

(3) Except in a *high hazard industrial occupancy*, an *exit* door need not swing in the direction of *exit* travel where it serves

- (a) a room, *suite* or *floor area* having an *occupant load* of not more than 60 persons, or
- (b) as part of a *means of egress* from more than one *floor area* and the *floor areas* so served have a total *occupant load* of not more than 60 persons.



**3.4.6.12. Self-Closing Devices**

- (1) An *exit* door that is normally required to be kept closed
  - (a) shall be provided with a self-closing mechanism, and
  - (b) shall not be secured in an open position except as permitted by Sentence 3.1.8.12.(1).

**3.4.6.13. Sliding Doors**

- (1) Except as permitted by Sentence (2) an *exit* door leading directly to outdoors at ground level is permitted to be a sliding door provided it is released in conformance with Sentence 3.3.1.11.(1).
- (2) An *exit* door serving a Group B, Division 1 *occupancy*, or an *impeded egress zone* in other *occupancies*, is permitted to be a sliding door that does not conform to Sentence 3.3.1.11.(1) provided it is designed to be released in conformance with Article 3.3.1.12.

**3.4.6.14. Revolving Doors**

- (1) Except as permitted by Sentence (3), a revolving door, if used, shall
  - (a) be collapsible,
  - (b) have hinged doors providing equivalent exiting capacity located adjacent to it,
  - (c) be used as an *exit* from the ground floor level only,
  - (d) be not less than 3 m from the foot of any stairway, and
  - (e) have all glass in door leaves and enclosure panels conforming to
    - (i) CAN/CGSB-12.1-M, "Tempered or Laminated Safety Glass", or
    - (ii) CAN/CGSB-12.11-M, "Wired Safety Glass".
- (2) Except as permitted by Sentence (3), a revolving door shall not be considered to have an exiting capacity for more than 45 persons.
- (3) An electrically powered revolving door is not required to conform to Sentences (1) and (2) provided
  - (a) the door leaves will collapse and stop automatic rotation of the door system and not obstruct the doorway if a force not more than that specified in Sentence 3.4.6.15.(2) is applied at the centre of a door leaf,
  - (b) the door leaves are capable of being opened from inside the *building* without requiring keys, special devices, or specialized knowledge of the door opening mechanism,
  - (c) the allowable exiting capacity is based on the clear width of passage through the door enclosure when the doors are fully collapsed,
  - (d) a permanent sign, whose centreline is between 1 000 mm and 1 500 mm above the floor, is placed on each face of each door leaf indicating the method for collapsing the door leaf in an emergency, and
  - (e) glass used for door leaves and enclosure panels is safety glass conforming to

- (i) CAN/CGSB-12.1-M, "Tempered or Laminated Safety Glass", or
- (ii) CAN/CGSB-12.11-M, "Wired Safety Glass".

**3.4.6.15. Door Release Hardware**

(1) Except for *dwelling units*, and except for devices on doors serving a *contained use area* or an *impeded egress zone* designed to be released in conformance with Article 3.3.1.12., and except as permitted by Sentence (4), locking, latching and other fastening devices on every *exit* door shall permit the door to be readily opened from the inside with not more than one releasing operation and without requiring keys, special devices or specialized knowledge of the door opening mechanism.

(2) If a door is equipped with a latching mechanism, a device that will release the latch and allow the door to swing wide open when a force of not more than 90 N is applied to the device in the direction of travel to the *exit* shall be installed on

- (a) every *exit* door from a *floor area* containing an *assembly occupancy* having an *occupant load* more than 100,
- (b) every door leading to an *exit* lobby from an *exit* stair shaft, and every exterior door leading from an *exit* stair shaft in a *building* having an *occupant load* more than 100, and
- (c) every *exit* door from a *floor area* containing a *high hazard industrial occupancy*.

(3) Except as required by Sentence 3.8.3.3.(7), every *exit* door shall be designed and installed so that, when the latch is released, the door will open under a force of not more than 90 N, applied at the knob or other latch releasing device.

(4) Electromagnetic locks that do not incorporate latches, pins or other similar devices to keep the door in the closed position are permitted to be installed on *exit* doors other than doors described in Sentence (5) provided

- (a) the *building* is equipped with a fire alarm system conforming to Subsection 3.2.4.,
- (b) the locking device, and all similar devices in the *access to exit* leading to the *exit* door, are installed as ancillary devices to the fire alarm system and release immediately upon activation of
  - (i) the *alarm signal* where a single stage fire alarm system is installed,
  - (ii) except as provided in Subclause (iii), the *alert signal* where a 2 stage fire alarm system is installed, or
  - (iii) the *alarm signal* of a 2 stage fire alarm system installed in a *care or detention occupancy*,
- (c) the locking device releases immediately upon loss of power to the fire alarm control panel or loss of power controlling the electromagnetic locking mechanism and its associated auxiliary controls,
- (d) the locking device releases immediately upon actuation of a manually operated switch readily accessible only to authorized personnel and located near the main entrance of the *building* or in the central alarm and control facility of Sentence 3.2.6.12.(1),
- (e) the locking device releases immediately upon a fault being detected in the electrical circuit between the fire alarm control panel and the controller of the locking device,

- (f) the locking device releases immediately upon the operation of a manual pull station for the fire alarm system located on the wall not more than 600 mm from the door,
  - (g) a legible sign having the words **EMERGENCY EXIT UNLOCKED BY FIRE ALARM** is permanently mounted on the door,
  - (h) the lettering on the sign required in Clause (g) is at least 25 mm high with a 5 mm stroke,
  - (i) upon release, the locking device must be reset manually by the actuation of the switch referred to in Clause (d),
  - (j) the operation of any by-pass switch, where provided for testing of the fire alarm system, causes an audible signal and a visual signal to be indicated at the fire alarm annunciator panel and at the monitoring station of Clauses 3.2.4.7.(4)(a), (b) or (c), and
  - (k) emergency lighting is provided at the doors.
- (5) Except as permitted in Sentence (6), electromagnetic locks are not permitted to be installed on *exit* doors
- (a) described in Clauses 3.4.6.15.(2)(a), (b) or (c),
  - (b) serving an elementary or secondary school, or
  - (c) leading directly from a *high hazard industrial occupancy*.

(6) Electromagnetic locks are permitted to be installed on an exterior door leading from an *exit* stairway in a *building* serving only a Group B, Division 2 *major occupancy* or a Group B, Division 3 *major occupancy*.

(7) Door hardware for the operation of the doors referred to in this Section shall be installed at a height not more than 1 200 mm above the finished floor.

#### 3.4.6.16. Reserved

#### 3.4.6.17. Emergency Access to Floor Areas

- (1) In a *building* more than 6 *storeys* in *building height*
  - (a) except as permitted by Sentence (3), doors providing access to *floor areas* from *exit* stairs shall not have locking devices to prevent entry into
    - (i) any *floor area* designated as an area of refuge,
    - (ii) *floor areas* located at intervals of 5 *storeys* or less, and
    - (iii) at least one of the three highest *storeys*,
  - (b) doors referred to in Clause (a) that provide access into the *floor area* shall be identified by a sign on the stairway side to indicate that they are openable from that side, and
  - (c) a master key to fit all door locking devices that are intended to prevent entry into a *floor area* from an *exit* stair shall be provided in a designated location accessible to firefighters, or the door shall be provided with a wired glass panel not less than 0.0645 m<sup>2</sup> in area and located not more than 300 mm from the door opening hardware.
- (2) If access to *floor areas* through unlocked doors is required by Clause (1)(a) or through electromagnetically locked doors as permitted by Sentence (3), it shall be possible for a person entering the *floor area*

to have access through unlocked doors or through electromagnetically locked doors within the *floor area* to at least one other *exit*.

(3) Electromagnetic locking devices may be installed on the doors providing access to *floor areas* from *exit* stairs as required by Clause (1)(a), provided all locking device release and signage provisions in Sentence 3.4.6.15.(4) are installed on both sides of the doors.

(4) In a *building* not more than 6 *storeys* in *building height*, doors providing access from *exit* stairs to a *floor area* containing a *hotel* are permitted to have locking devices to prevent entry into the *floor area* provided the requirements in Clause (1)(c) are complied with.

#### 3.4.6.18. Floor Numbering

- (1) Arabic numerals indicating the assigned floor number shall
  - (a) be mounted permanently on each side of doors to *exit* stair shafts,
  - (b) be not less than 60 mm high, raised approximately 0.7 mm above the surface,
  - (c) be located 1 500 mm from the finished floor, and
  - (d) be contrasting in colour with the surface to which they are applied.
- (2) Upper case letters indicating the designation assigned to each *exit* stair shaft shall be mounted permanently on each side of doors to the *exit* stair shaft and shall
  - (a) be not less than 60 mm high, raised approximately 0.7 mm above the surface,
  - (b) be located 1 500 mm from the finished floor, and
  - (c) be contrasting in colour with the surface on which they are applied.

#### 3.4.7. Fire Escapes

##### 3.4.7.1. Scope

(1) Except as permitted by Sentence (2), fire escapes shall not be erected on a *building*.

(2) If it is impracticable to provide one or more of the *exit* facilities listed in Article 3.4.1.4., fire escapes conforming to Articles 3.4.7.2. to 3.4.7.7. are permitted to serve *floor areas* in an existing *building* provided the *floor areas* served are

- (a) not in an elementary or secondary school,
- (b) not more than 2 *storeys* above ground level in *care or detention occupancies*, and
- (c) not more than 5 *storeys* above ground level in other *occupancies*.

##### 3.4.7.2. Fire Escape Construction

(1) Fire escapes shall be of metal or concrete, of the stair type extending to ground level, constructed throughout in a strong substantial manner and securely fixed to the *building*, except that wooden fire escapes are permitted to be used on *buildings of combustible construction* if all posts and brackets are not less than 89 mm in their least dimension and all other woodwork is not less than 38 mm in its least dimension.

##### 3.4.7.3. Access to Fire Escapes

(1) Access to fire escapes shall be from corridors through doors at floor level, except that access from a *dwelling unit* is permitted to be



through a casement window having an unobstructed opening not less than 1 100 mm high by 550 mm wide with a sill height of not more than 900 mm above the inside floor.

(2) The clear area of a fire escape balcony onto which a door opens, shall be not less than 1 m<sup>2</sup>.

#### 3.4.7.4. Protection of Fire Escapes

(1) If a fire escape serves any *storey* above the second, openings located in a zone described in Sentence (2), including access doorways in the exterior walls of the *building* to which the fire escape is attached, shall be protected by *closures* conforming to Subsection 3.1.8.

(2) The zone referred to in Sentence (1) extends from any balcony, platform or stairway of a fire escape to a distance

- (a) 3 m horizontally,
- (b) 10 m below, and
- (c) 1 800 mm above.

#### 3.4.7.5. Stairs

(1) Stairs shall be inclined at an angle of not more than 45° with the horizontal, and their steps shall have risers not more than 210 mm high and treads not less than 220 mm wide exclusive of nosing.

(2) Stairway headroom shall be not less than 1 950 mm plus the height of one riser measured vertically above the nosing of any tread or platform.

(3) The width of a fire escape shall conform to Sentence 3.4.3.1.(1), except that the width is permitted to be reduced to 550 mm provided the fire escape serves

- (a) not more than 3 *storeys*, and
- (b) not more than 15 persons.

(4) If a flight of stairs leading to the ground at the foot of a fire escape is not fixed in position, it shall

- (a) be held in the raised position without a latch or locking device,
- (b) be fitted with a counterbalancing device,
- (c) be easily and quickly brought into position for use, and
- (d) reach the ground in the lowered position.

#### 3.4.7.6. Guards and Railings

(1) The open sides of every platform, balcony and stairway forming part of a fire escape shall be protected by *guards* not less than 920 mm high measured vertically above the nosing of any tread or platform.

(2) The top rail of a *guard* is permitted to serve as a handrail if it is free from obstructions which could break a handhold.

(3) A wall handrail shall be installed if the fire escape is more than 550 mm wide.

(4) Openings through any *guard* which is required by Sentence (1) shall be of a size which will prevent the passage of a sphere having a

diameter more than 100 mm unless it can be shown that the location and size of openings which exceed this limit do not represent a hazard.

(5) Unless it can be shown that the location and size of openings do not present a hazard, a *guard* for a fire escape shall be designed so that no member, attachment or opening located between 140 mm and 900 mm above a platform or the nosing of any tread will facilitate climbing.

#### 3.4.7.7. Landings

(1) Platforms for a fire escape shall be provided in conformance with the requirements for stair landings in Article 3.4.6.3.

### Section 3.5. Vertical Transportation

#### 3.5.1. General

##### 3.5.1.1. Scope

(1) This Section applies to vertical transportation facilities installed in a *building*, including elevators, escalators and dumbwaiters.

(2) Elevators in a *building* within the scope of Subsection 3.2.6. shall conform to Articles 3.2.6.8. and 3.2.6.9.

#### 3.5.2. Elevator Required

##### 3.5.2.1. Elevator for Group B, Division 2 and 3 Occupancies

(1) In a Group B, Division 2 or 3 *occupancy*, if sleeping rooms or patient or resident services are provided on more than one floor level and the floor levels are not connected by ramps conforming to Article 3.8.3.4., such floor levels shall be served by at least one elevator that

- (a) is large enough to accommodate a stretcher in a horizontal position, and
- (b) conforms to Appendix E of CSA-B44 "Safety Code for Elevators, Escalators, Dumbwaiters, Moving Walks and Freight Platforms Lifts".

#### 3.5.3. Fire Separations

##### 3.5.3.1. Fire Separations for Elevator Hoistways

(1) A *vertical service space* used as an elevator hoistway shall be separated from all other portions of each adjacent *storey* by a *fire separation* having a *fire-resistance rating* conforming to Table 3.5.3.1. for the *fire-resistance rating* required by Subsection 3.2.2. for

- (a) the floor assembly above the *storey*, or
- (b) the floor assembly below the *storey*, if there is no floor assembly above.

##### 3.5.3.2. Vertical Service Spaces for Dumbwaiters

(1) A *vertical service space* containing a dumbwaiter shall be separated from all other portions of each adjacent *storey* by a *fire separation* having a *fire-resistance rating* conforming to Table 3.5.3.1. for the *fire-resistance rating* required by Subsection 3.2.2. for

- (a) the floor assembly above the *storey* or
- (b) the floor assembly below the *storey*, if there is no floor assembly above.



Table 3.5.3.1.

**Fire Separation for Vertical Transportation Space**

Forming Part of Articles 3.5.3.1. and 3.5.3.2.

<i>Fire-Resistance Rating of Fire Separation Required for Floor Assembly</i>	<i>Minimum Fire-Resistance Rating of Vertical Service Space for Elevator Hoistway</i>	<i>Minimum Fire-Resistance Rating of Vertical Service Space for Dumbwaiters</i>
less than 45 min	45 min	---
45 min	45 min	45 min
1 h	1 h	45 min
1.5 h	1 h	1 h
2 h or more	1.5 h	1 h
Column 1	2	3

**3.5.3.3. Fire Separations for Elevator Machine Rooms**

(1) Except as permitted by Sentence (2), a room containing elevator machinery shall be separated from all other parts of the *building* by a *fire separation* having a *fire-resistance rating* not less than that required for the *vertical service space* containing the elevator hoistway.

(2) A room containing elevator machinery need not be separated from the elevator hoistway that it serves provided the room and the hoistway are separated from all other parts of the *building* by a *fire separation* having a *fire-resistance rating* not less than that required for the *vertical service space* containing the elevator hoistway.

**3.5.4. Dimensions and Signs****3.5.4.1. Elevator Car Dimensions**

(1) If an elevator is installed to conform to the requirements of Article 3.3.1.7., or if one or more elevators are provided in a *building* more than three *storeys* in *building height*, each *storey* having elevator service shall be served by at least one elevator which has inside dimensions that will accommodate and provide adequate access for a patient stretcher 2 010 mm long and 610 mm wide in the prone position.

(2) An elevator satisfying the requirements of Sentence (1) shall be clearly identified on the main entrance level of the *building*.

**Section 3.6. Service Facilities****3.6.1. General****3.6.1.1. Scope**

(1) The provisions of this Section apply to *horizontal service spaces*, *vertical service spaces*, *attic or roof spaces*, ducts, crawl spaces, shaft spaces, *service rooms*, and mechanical penthouses, and facilities contained therein.

(2) Except for *plenum* requirements in 3.6.4.3., the fire safety characteristics of heating, ventilating and air-conditioning systems shall comply with Part 6.

**3.6.1.2. Reserved****3.6.1.3. Storage Use Prohibition**

(1) *Service spaces* shall not be designed to facilitate subsequent use as storage space.

**3.6.1.4. Reserved****3.6.1.5. Fixed Access Ladders**

(1) If a fixed ladder is installed to provide access to a roof of a *building*, the design and installation of the attachment and anchorage system for the ladder shall be as described in the Supplementary Guidelines.

**3.6.2. Service Rooms****3.6.2.1. Fire Separations around Service Rooms**

(1) Except as permitted by Article 3.6.2.2., a fuel-fired *appliance* in a *building* containing a Group B or Group F, Division 1 *occupancy* shall be located in a *service room* which shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than

- (a) 2 h if the *building* is more than 2 *storeys* in *building height* or more than 400 m<sup>2</sup> in *building area*, or
- (b) 1 h if the *building* is neither more than 2 *storeys* in *building height* nor more than 400 m<sup>2</sup> in *building area*.

(2) Except as permitted by Article 3.6.2.2., a fuel-fired *appliance* in a *building* not containing a Group B or Group F, Division 1 *occupancy* shall be located in a *service room* which shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h if the *building* is more than 2 *storeys* in *building height* or more than 400 m<sup>2</sup> in *building area*.

(3) A solid fuel-fired *appliance* shall not be located in a *repair garage*, a *storage garage* or any other location where the *appliance* could be exposed to flammable vapours or gases unless

- (a) it is enclosed in a *service room* which is
  - (i) separated from the remainder of the *building* in conformance with Sentence (1) or Sentence (2), and
  - (ii) supplied with combustion air directly from outside the *building*, and
- (b) the heat generated by the *appliance* is supplied indirectly to the space served by means of ducts or piping.

(4) The *fire separation* requirements of Sentence (1) or Sentence (2) shall apply to a *service room* intended to contain equipment that uses a liquid having a flash point below 93.3°C.

(5) Except as permitted by Article 3.6.2.2., a *service room* used for a purpose not described in Sentences (1), (2), (3), or (4) and Articles 3.6.2.5., 3.6.2.6. and 3.6.2.8. shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(6) Sentence (5) shall apply to a room that contains electrical equipment that is required to be located in a *service room* by a regulation made under the Power Corporation Act.

(7) The *fire separation* provisions for a fuel-fired *appliance* in a portable classroom shall conform to Article 3.9.3.7.

**3.6.2.2. Waiver of Fire Separations**

(1) A *fire separation* is not required between a fireplace and the space it serves.

(2) A *fire separation* is not required between a roof-top *appliance* and the *building* it serves.

(3) Except for *buildings* classified as Group B or Group F, Division 1 *occupancies*, the *fire separations* required by Sentence 3.6.2.1.(2) need not be provided for fuel-fired *appliances* that serve not more than one room or *suite*, provided the *appliances* are not solid fuel-fired *appliances* referred to in Sentence 3.6.2.1.(3).

(4) The *fire separation* required by Sentence 3.6.2.1.(5) need not be provided if the *service room* is located in a *floor area* that is *sprinklered*.

(5) If a room contains a limited quantity of service equipment, and the service equipment does not constitute a fire hazard, the requirements of Sentence 3.6.2.1.(5) for a *fire separation* shall not apply.

### 3.6.2.3. Service Rooms under Exits

(1) A *service room* containing service equipment subject to possible explosion, such as *boilers* operating in excess of 100 kPa (gauge) and some types of refrigerating machinery and transformers, shall not be located directly under a required *exit*.

### 3.6.2.4. Service Equipment

(1) A *service room* containing space heating, space cooling and service water heating *appliances* is permitted to contain other service equipment such as electrical service equipment.

### 3.6.2.5. Incinerator Rooms

(1) A *service room* containing an incinerator shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 2 h.

(2) A *service room* containing an incinerator shall not contain other fuel-fired *appliances*.

### 3.6.2.6. Combustible Refuse Storage

(1) Except as required by Sentence 3.6.3.3.(9), a room for the storage of *combustible* refuse shall be

- (a) separated from the remainder of the *building* by a *fire separation* with a *fire-resistance rating* not less than 1 h, and
- (b) *sprinklered*.

### 3.6.2.7. Door Swing for Service Rooms

(1) A swing-type door from a *service room* containing a *boiler* or incinerator shall swing outward from the room, except that the door shall swing inward if the door opens onto a corridor or any room used for an *assembly occupancy*.

### 3.6.2.8. Electrical Equipment Vaults

(1) Where an electrical equipment vault is required by a regulation made under the Power Corporation Act, the electrical equipment vault shall be totally enclosed by a *fire separation* of solid masonry or concrete construction having a *fire-resistance rating* of not less than 3 h if the vault is not provided with an automatic fire extinguishing system and not less than 2 h if the vault is so protected.

(2) Where a *building* is required to be *sprinklered*, the electrical equipment vault described in Sentence (1) need not be *sprinklered* provided

- (a) the vault is designed for no purpose other than to contain the electrical equipment, and

(b) a *smoke detector* is provided in the vault which will actuate the *building* fire alarm system in the event of a fire in the vault.

(3) A vault, which is part of a *building* and houses electrical equipment indoors, shall have

- (a) roofs or ceilings consisting of reinforced concrete of adequate strength for the conditions and not less than 150 mm thick, and
- (b) floors consisting of reinforced concrete of adequate strength for the conditions and not less than 150 mm thick, except that floors which are at excavation level are permitted to be of reinforced concrete not less than 100 mm thick.

(4) Walls, roofs or ceilings, and floors shall be adequately anchored together in a manner designed to resist dislodgement by explosion.

(5) Only pipes or ducts necessary for fire protection or the proper operation of the electrical installation shall penetrate the *fire separations* surrounding the electrical equipment vault.

(6) A ventilation duct or opening, which penetrates the *fire separation* to the outdoors, need not be protected by a *closure* at the penetration.

(7) Each door to an electrical equipment vault shall be provided with a substantial lock or padlock.

(8) Explosion-relief devices and vents or other protective measures shall be provided for every electrical equipment vault containing dielectric liquid filled electrical equipment in conformance with Sentence 3.3.1.19.(2).

(9) Every electrical equipment vault shall be provided with a ventilation system designed in conformance with Part 6 to prevent the ambient temperature in the vault from exceeding 40°C.

(10) Where the vault ventilation system in Sentence (9) is directly from an outdoor area by natural ventilation without the use of ducts, and where the electrical equipment is the principal source of heat, the combined net area of inlet and outlet openings shall be not less than 0.002 m<sup>2</sup>/kVa of electrical equipment capacity with a minimum of 0.093 m<sup>2</sup>, except that

- (a) where equipment in the power class as described in CAN3-C88, "Power Transformers and Reactors" is installed, ventilation requirements are permitted to be based on the actual full-load losses, or
- (b) where the equipment is installed for emergency purposes only and is not normally energized, it need not be considered in determining the ventilation requirements.

(11) In the vault ventilation system in Sentence (10), the inlet for fresh air shall lead from an outdoor area and shall terminate at a point not more than 1 000 mm above the floor level of the vault.

(12) Where the vault ventilation system in Sentence (9) is a mechanical system, it shall be separate from the system for the remainder of the *building* and shall be designed so that

- (a) the vault temperature is thermostatically controlled,
- (b) the fan is located so that it may be serviced without danger to personnel,
- (c) a high temperature alarm is provided in the vault,
- (d) the system is automatically shut off in the event of a fire in the vault, and



- (e) a filter is provided in the air inlet if there is a possibility of dirt being drawn in.

(13) All ventilation openings shall be protected in conformance with Sentences 6.2.3.17.(4) and (5) and the protection shall be installed in such a manner that it cannot be removed from the outside by the use of common tools and it is tamperproof.

(14) Except as permitted in Sentence (15), the floor of the electrical equipment vault described in Sentences (1) and (2) shall be liquid tight and surrounded by liquid tight walls and sills of sufficient height to confine within the vault all of the liquid from the largest item of electrical equipment, but to a height of not less than 100 mm.

(15) The floor of the electrical equipment vault described in Sentences (1) and (2) may be provided with a floor drain connected to a covered sump capable of holding all of the liquid from the largest item of electrical equipment, and the connection shall have a *noncombustible* trap to prevent the spread of fire from the vault to the sump.

### 3.6.2.9. Storage of Oxygen Containers

(1) In a Group B, Division 2 or 3 *occupancy*, a room for the storage of oxygen containers shall be

- (a) separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h,
- (b) designed for the storage of oxygen containers only,
- (c) vapour tight,
- (d) lined with *noncombustible* finish,
- (e) separately exhausted to the exterior, and
- (f) equipped with racks to store the containers.

### 3.6.3. Vertical Service Spaces and Service Facilities

#### 3.6.3.1 Fire Separations for Vertical Service Spaces

(1) Except as required by Section 3.5., a *vertical service space* shall be separated from all other portions of each adjacent *storey* by a *fire separation* having a *fire-resistance rating* conforming to Table 3.6.3.1. for the *fire-resistance rating* required by Subsection 3.2.2. for

- (a) the floor assembly above the *storey*, or
- (b) the floor assembly below the *storey*, if there is no floor assembly above.

(2) A *vertical service space* that does not extend through the roof of a *building* shall be enclosed at the top with construction having a *fire-resistance rating* not less than that required for the *vertical service space* walls.

Table 3.6.3.1.

#### Fire Separations for Vertical Service Space

Forming Part of Sentence 3.6.3.1.(1)

<i>Fire-Resistance Rating of Fire Separation Required for Floor Assembly</i>	<i>Minimum Fire-Resistance Rating of Vertical Service Space</i>
less than 45 min	---
45 min	45 min
1 h	45 min
1.5 h	1 h
2 h or more	1 h
Column 1	2

(3) A *vertical service space* that does not extend to the bottom of a *building* shall be enclosed at the lowest level with construction having a *fire-resistance rating* not less than that required for the *vertical service space* walls.

(4) A vent from a *vertical service space* not extending to the roof shall be enclosed within the *building* with construction having a *fire-resistance rating* not less than that required for the *vertical service space* walls.

(5) Only openings that are necessary for the use of the *vertical service space* shall be permitted through a *vertical service space* enclosure.

#### 3.6.3.2. Foamed Plastic Protection

(1) Foamed plastic insulation in a *vertical service space* shall be protected in conformance with Article 3.1.5.11.

#### 3.6.3.3. Linen and Refuse Chutes

(1) A linen chute or refuse chute shall

- (a) be impervious to moisture,
- (b) have a smooth internal surface,
- (c) be corrosion-resistant,
- (d) be constructed of *noncombustible* material, and
- (e) be located in a shaft in which there are no services other than *noncombustible* drain, waste and vent piping or *noncombustible* water piping.

(2) A shaft containing a linen chute or refuse chute shall have a *fire-resistance rating* conforming to Sentence 3.6.3.1.(1), but not less than

- (a) 1 h if the chute outlet for the discharge room is protected by an automatic, self-latching *closure* held open by a fusible link, or
- (b) 2 h if no *closure* is provided at the chute outlet into the discharge room.

(3) An interior linen chute or refuse chute shall extend not less than 1 000 mm above the roof and shall be vented above the roof with a vent which



- (a) has an unobstructed area not less than the cross-sectional area of the chute, and
- (b) is equipped with a cover that will open automatically, or that can be opened manually, in the event of a fire in the chute.
- (4) Intake openings for a linen chute or a refuse chute shall
  - (a) have an area not more than 60% of the cross-sectional area of the chute, and
  - (b) be fitted with *closures* designed to close automatically and latch after use.
- (5) Intake openings for a linen chute or a refuse chute shall be located in rooms or compartments that
  - (a) have no dimension less than 750 mm,
  - (b) are separated from the remainder of the *building* by a *fire separation* with a *fire-resistance rating* not less than 45 min,
  - (c) are designed for no other purpose, and
  - (d) do not open directly into an *exit*.
- (6) Sprinklers shall be installed at the top of each linen chute or refuse chute, at alternate floor levels and in the room or bin into which the chute discharges.
- (7) The room into which a linen chute discharges shall be separated from the remainder of the *building* by a *fire separation* with a *fire-resistance rating* not less than 1 h.
- (8) A refuse chute shall be equipped at the top with spray equipment for washing-down purposes.
- (9) A refuse chute shall discharge only into a room or bin separated from the remainder of the *building* by a *fire separation* with a *fire-resistance rating* not less than 2 h.
- (10) The room or bin into which a refuse chute discharges shall be of sufficient size to contain the refuse between normal intervals of emptying, be impervious to moisture and be equipped with a water connection and floor drain for washing-down purposes.
- (11) A room into which a refuse chute discharges shall contain no service equipment that is not related to refuse handling and disposal.

**3.6.3.4. Exhaust Duct Negative Pressure**

- (1) If a *vertical service space* contains an exhaust duct that serves more than one *fire compartment*, the duct shall have a fan located at or near the exhaust outlet to ensure that the duct is under negative pressure.

**3.6.4. Horizontal Service Spaces and Service Facilities**

**3.6.4.1. Scope**

- (1) This Subsection applies to *horizontal service spaces* and service facilities, including ceiling spaces, duct spaces, crawl spaces and *attic* or *roof spaces*.

**3.6.4.2. Fire Separations for Horizontal Service Spaces**

- (1) A *horizontal service space* that penetrates a required vertical *fire separation* shall be separated from the remainder of the *building* it serves in conformance with Sentence (2).

(2) If a *horizontal service space* or other concealed space is located above a required vertical *fire separation* other than a vertical shaft, this space need not be divided at the *fire separation* as required by Article 3.1.8.3. provided the construction between this space and the space below is a *fire separation* with a *fire-resistance rating* equivalent to that required for the vertical *fire separation*, except that the *fire-resistance rating* is permitted to be not less than 30 min if the vertical *fire separation* is not required to have a *fire-resistance rating* more than 45 min.

**3.6.4.3. Plenum Requirements**

- (1) A concealed space used as a *plenum* within a floor assembly or within a roof assembly need not conform to Sentence 3.1.5.14.(1) and Article 6.2.3.2. provided

- (a) all materials within the concealed space have a *flame-spread rating* not more than 25 and a smoke developed classification not more than 50, except for
  - (i) tubing for pneumatic controls,
  - (ii) optical fibre cables and electrical wires and cables that exhibit a flame spread not more than 1.5 m, a smoke density not more than 0.5 at peak optical density and a smoke density not more than 0.15 at average optical density when tested in conformance with the Flame and Smoke Test in the Appendix to CAN/CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT6 Rating),
  - (iii) optical fibre cables and electrical wires and cables that are located in totally enclosed *noncombustible* raceways, and
  - (iv) Reserved
  - (v) single conductor electrical wires and cables that exhibit a vertical char of not more than 1.5 m when tested in conformance with the Vertical Flame Test - Cables in Cabletrough in Clause 4.11.4. of CSA C22.2 No. 0.3, "Test Methods for Electrical Wires and Cables" (FT4 Rating), and
- (b) the supports for the ceiling membrane are of *noncombustible* material having a melting point not below 760°C.

(2) If a concealed space referred to in Sentence (1) is used as a return-air *plenum* and incorporates a ceiling membrane that forms part of the required *fire-resistance rating* of the assembly, every opening through the membrane shall be protected by a *fire stop flap* which shall

- (a) stop the flow of air into the concealed space in the event of a fire,
  - (b) be supported in a manner that will maintain the integrity of the ceiling membrane for the duration of time required to provide the required *fire-resistance rating*, and
  - (c) conform to CAN4-S112.2-M, "Standard Method of Fire Test of Ceiling Firestop Flap Assemblies".
- (3) Asbestos paper shall not be exposed in supply and return-air systems.

**3.6.4.4. Attic or Roof Space Access**

(1) An *attic or roof space* more than 600 mm high shall be provided with access from the floor immediately below by a hatchway not less than 550 mm by 900 mm or by a stairway.

**3.6.4.5. Horizontal Service Space Access**

(1) A *horizontal service space*, consisting of ceiling and duct spaces, which is more than 1 200 mm high and 600 mm wide shall have inspection doors not less than 300 mm in both horizontal and vertical dimensions placed so that the entire interior of the duct or space can be viewed.

**3.6.4.6. Crawl Space Access**

(1) A crawl space shall have at least one access opening not less than 550 mm by 900 mm.

**Section 3.7. Health Requirements****3.7.1. Height and Area of Rooms****3.7.1.1. Room and Space Height**

- (1) The height of every room and space shall be sufficient that
  - (a) adequate light and air are provided for the intended *occupancy*, and
  - (b) no obstruction to movement or activities below is caused by the ceiling or ceiling fixtures.
- (2) The unobstructed height in *dwelling units* and sleeping rooms in Group C *occupancies* shall conform to Part 9.

**3.7.1.2. Residential Room Dimensions**

(1) The areas of rooms in *dwelling units*, dormitories, boarding houses and rooming houses shall conform to Part 9.

**3.7.1.3. Sleeping Areas in Group B and Child Care Facilities**

- (1) Except as provided in Sentence (2), a sleeping area in a Group B *occupancy* shall provide not less than 4.7 m<sup>2</sup> per person in a room having
  - (a) an area not less than 7 m<sup>2</sup>,
  - (b) a horizontal dimension not less than 2 000 mm, and
  - (c) a ceiling height not less than 2 300 mm.
- (2) Sleeping rooms for residents in nursing homes shall have, exclusive of space provided for washrooms and for built-in or portable clothes closets, a floor space not less than
  - (a) 10.22 m<sup>2</sup> in a single-bed unit,
  - (b) 16.72 m<sup>2</sup> in a two-bed unit,
  - (c) 25.08 m<sup>2</sup> in a three-bed unit, and
  - (d) 29.73 m<sup>2</sup> in a four-bed unit.
- (3) A child care facility shall provide sleeping accommodation having not less than 0.93 m<sup>2</sup> of floor surface area for each child with not less than 2 300 mm ceiling height over the entire room area.

**3.7.1.4. Sleeping Areas in Camps**

(1) *Recreational camps* shall have an area in the sleeping quarters of not less than 3.72 m<sup>2</sup> per camper or, if double or triple tier bunk units are used, 2.79 m<sup>2</sup> per camper.

(2) A *camp for housing of workers* shall have an area of not less than 3.72 m<sup>2</sup> per employee in every room used for sleeping purposes.

**3.7.2. Windows****3.7.2.1. Window Areas**

(1) Except as provided in Sentences (2) and (3) or otherwise permitted, every room used for sleeping in any *building*, and every principal room such as living room, dining room or combination thereof in *dwelling units* shall be provided with windows having areas conforming to Part 9, except that Article 9.7.1.3 does not apply.

- (2) Nursing homes shall have
  - (a) in an activity room, a sitting room or a lounge, one or more windows with a total unobstructed glass area, exclusive of skylights, of not less than 10% of the area of the room, and
  - (b) in a residents' sleeping room, one or more windows that
    - (i) have a total unobstructed glass area, exclusive of skylights, of not less than 10% of the area of the room,
    - (ii) open to the outdoors and have a total unobstructed glass area, exclusive of skylights, of not less than 5% of the area of the room, and
    - (iii) are installed with the bottom edge of the glass of every window not more than 660 mm above the floor.
- (3) Play activity rooms in a child care facility and work areas in *live/work units* shall have one or more windows that conform to Clause (2)(a).

**3.7.2.2. Window Protection in Apartment Buildings**

- (1) In Group C *major occupancy apartment buildings* protection shall be provided at windows to minimize the hazards to children in accordance with Sentences (2) to (4).
- (2) Fixed windows within *dwelling units* that extend to less than 1 000 mm from the floor shall be protected by *guards* to at least 1 000 mm above the floor, or shall be designed to withstand the lateral *design loads* for balcony *guards* in Part 4.
- (3) Except as provided in Sentence (4), in *dwelling units* any window located more than 2 000 mm above *grade* which opens within 1 500 mm of the floor shall be protected

- (a) by a *guard* conforming to Sentence 3.3.1.17.(3),
- (b) by
  - (i) a controlled sash operation to restrict, when engaged, the opening of the operable sash to not more than 100 mm, and

(ii) a heavy duty screen conforming to CAN/CSA-A440-M, "Windows", or

(c) by an alternative device which does not reduce the degree of safety provided by Clauses (a) or (b).

(4) Protection of a window need not be provided in a *dwelling unit* where an exterior balcony is constructed for the full length of a window.

### 3.7.3. Ventilation

#### 3.7.3.1. Ventilation Requirements

(1) All rooms and spaces shall be ventilated to conform with Part 6.

### 3.7.4. Plumbing Facilities

#### 3.7.4.1. Plumbing and Drainage Systems

(1) Except as permitted in Sentence (3), each *building* situated on property that abuts on a *street* in which a public or municipal water main is located shall be provided with or have accessible to its occupants a *plumbing system* including a *potable* water supply, a *sanitary drainage system* and *plumbing fixtures*.

(2) When the installation of a *sanitary drainage system* is not possible because of the absence of a water supply, sanitary privies, chemical closets or other means for the disposal of human waste shall be provided.

(3) *Plumbing fixtures* need not be provided in a *building* which is not normally occupied by persons where such installations are impractical and other *fixtures* are available in nearby *buildings* when the subject *building* is in use.

#### 3.7.4.2. Plumbing Fixtures, General

(1) For the purposes of this Subsection, the *occupant load* shall be determined in accordance with the provisions in Subsection 3.1.16. except that in a Group D *occupancy*, the area per person shall be 14 m<sup>2</sup>.

(2) Except as provided in this Subsection, water closets shall be provided for each sex assuming that the *occupant load* is equally divided between males and females, unless the proportion of each sex expected in the *building* can be determined with reasonable accuracy.

(3) Except as provided in Sentence (4), urinals are permitted to be substituted for water closets required by this Subsection for males and may be counted as water closets provided the number of urinals is not more than

(a) one-fifth of the required number of water closets in hospitals and nursing homes, and

(b) two-thirds of the required number of water closets in any other *occupancy*.

(4) If only 2 water closets are required for males, one urinal is permitted to be substituted for one of the water closets.

(5) Except as required in this Subsection, at least one lavatory shall be provided in a room containing one or 2 water closets or urinals, and at least one additional lavatory shall be provided for each additional 2 water closets or urinals.

(6) Wash fountains in circular or straight trough form are permitted to be provided in lieu of required lavatories provided each 500 mm of circumference or trough length is considered to be the equivalent of one lavatory.

### 3.7.4.3. Plumbing Fixtures for Assembly Occupancies

(1) Except as permitted by Sentences (2) to (16), the number of water closets required for *assembly occupancies* shall conform to Table 3.7.4.3.A.

Table 3.7.4.3.A.

#### Water Closets for Assembly Occupancies

Forming Part of Sentence 3.7.4.3.(1)

Number of Persons of Each Sex	Minimum Number of Water Closets for Each Sex
1 to 25	1
26 to 50	2
over 50	3 plus 1 for each additional increment of 50 persons of each sex in excess of 50
Column 1	2

(2) Except for motion picture *theatres*, the number of water closets required for Group A, Division 1 *occupancies* shall conform to Table 3.7.4.3.B.

Table 3.7.4.3.B.

#### Water Closets for Assembly Occupancies

Forming Part of Sentence 3.7.4.3.(2)

Number of Persons of Each Sex	Minimum Number of Water Closets	
	Male	Female
1 to 50	1	2
51 to 75	2	3
76 to 100	2	4
101 to 125	3	5
126 to 150	3	6
151 to 175	4	7
176 to 200	4	8
201 to 250	5	9
251 to 300	5	10
301 to 350	6	11
351 to 400	6	12
over 400	7 plus 1 for each additional increment of 200 males in excess of 400	13 plus 1 for each additional increment of 100 females in excess of 400
Column 1	2	3

(3) The number of water closets required shall conform to Table 3.7.4.3.C. for

(a) motion picture *theatres*,

(b) Group A, Division 3 *occupancies*,



(c) Group A, Division 4 occupancies, and

Table 3.7.4.3.E.

(d) outdoor pools.

**Water Closets for Assembly Occupancies**

Forming Part of Sentence 3.7.4.3.(5)

Table 3.7.4.3.C.

**Water Closets for Assembly Occupancies**

Forming Part of Sentence 3.7.4.3.(3)

Number of Persons of Each Sex	Minimum Number of Water Closets for Each Sex
1 to 50	1
51 to 150	2
151 to 250	3
251 to 375	4
376 to 500	5
over 500	6 plus 1 for each additional increment of 150 persons of each sex in excess of 500
Column 1	2

(4) The number of water closets required for dining rooms, restaurants and cafeteria shall conform to Table 3.7.4.3.D.

Table 3.7.4.3.D.

**Water Closets for Assembly Occupancies**

Forming Part of Sentence 3.7.4.3.(4)

Number of Persons of Each Sex	Minimum Number of Water Closets for Each Sex
1 to 20	1
21 to 70	2
71 to 105	3
106 to 135	4
136 to 165	5
166 to 195	6
196 to 225	7
226 to 275	8
276 to 325	9
326 to 375	10
376 to 425	11
over 425	12 plus 1 for each additional increment of 50 persons of each sex in excess of 425
Column 1	2

(5) The number of water closets required for establishments used primarily for the consumption of alcoholic beverages which provide limited or no food service shall conform to Table 3.7.4.3.E.

Number of Persons of Each Sex	Minimum Number of Water Closets for Each Sex
1 to 50	2
51 to 70	3
71 to 90	4
91 to 110	5
111 to 140	6
141 to 180	7
181 to 220	8
221 to 260	9
over 260	10 plus 1 for each additional increment of 40 persons of each sex in excess of 260
Column 1	2

(6) Except as provided in Sentences (7) and (8), in every dining room, restaurant, cafeteria and alcoholic beverage establishment having more than 40 seats, separate sanitary facilities shall be provided for employees, in addition to facilities provided for patrons, and the number of water closets and lavatories required shall conform to Table 3.7.4.3.F.

(7) Except as provided in Sentence (8), in every dining room, restaurant, cafeteria and alcoholic beverage establishment having not more than 40 seats, patrons are permitted to share the sanitary facilities provided for employees, and the minimum number of water closets and lavatories shall conform to Table 3.7.4.3.F. based on

(a) a male *occupant load* of 50% of the number of seats plus the number of male employees, and

(b) a female *occupant load* of 50% of the number of seats plus the number of female employees.

Table 3.7.4.3.F.

**Plumbing Fixtures for Assembly Occupancies**

Forming Part of Sentences 3.7.4.3.(6) and (7)

Number of Employees of Each Sex	Minimum Number of Water Closets and Lavatories	
	Male	Female
1 to 9	1	1
10 to 24	2	2
25 to 49	3	3
50 to 74	4	4
75 to 100	5	5
over 100	6 plus 1 for each additional increment of 30 male employees in excess of 100	6 plus 1 for each additional increment of 30 female employees in excess of 100
Column 1	2	3

(8) Where the total number of employees is not more than 5, the same room may be used by both female and male employees provided the door to the room can be locked from the inside.

(9) The number of employees in Sentences (6), (7) and (8) shall be the maximum number of employees who are normally present on the premises at one time and shall include only those who are present for more than 25 per cent of the working day.

(10) For a parking lot that is part of a restaurant where patrons are intended to eat in vehicles parked on the lot, the number of water closets required shall conform to

(a) Table 3.7.4.3.G. where food service by employees is not provided on the parking lot, or

(b) Table 3.7.4.3.H. where employees serve food on the parking lot.

**Table 3.7.4.3.G.**

**Water Closets for Assembly Occupancies**

Forming part of Sentence 3.7.4.3.(10)

Number of Parking Spaces	Minimum Number of Water Closets for Each Sex
1 to 20	1
21 to 70	2
71 to 105	3
106 to 135	4
136 to 165	5
166 to 195	6
196 to 225	7
226 to 275	8
276 to 325	9
326 to 375	10
376 to 425	11
over 425	12 plus 1 for each additional increment of 50 parking spaces in excess of 425
Column 1	2

(11) The number of water closets required for drive-in *theatres* shall conform to Table 3.7.4.3.H.

**Table 3.7.4.3.H.**

**Water Closets for Assembly Occupancies**

Forming part of Sentences 3.7.4.3.(10) and (11)

Number of Parking Spaces	Minimum Number of Water Closets for Each Sex
1 to 40	1
41 to 140	2
141 to 210	3
211 to 270	4
271 to 330	5
331 to 390	6
391 to 450	7
451 to 550	8
551 to 650	9
651 to 750	10
751 to 850	11
over 850	12 plus 1 for each additional increment of 100 parking spaces in excess of 850
Column 1	2

(12) The number of water closets required for dance halls and recreational establishments shall be not less than one fixture for each 100 males and one fixture for each 75 females.

(13) In a child care facility the maximum number of children per water closet and lavatory shall conform to Table 3.7.4.3.I.

**Table 3.7.4.3.I.**

**Plumbing Fixtures for a Child Care Facility**

Forming Part of Sentence 3.7.4.3.(13)

Age of Children	Maximum Number of Children per Water Closet and Lavatory
under 2	10 without regard to number of each sex
2 to 5	10 without regard to number of each sex
6 to 9	15 for males; 15 for females
over 9	30 for males; 26 for females
Column 1	2

(14) The number of water closets required for elementary and secondary schools shall be not less than one fixture for each 30 males and one fixture for each 26 females.

(15) The number of water closets required for non-residential college *buildings* shall be not less than one fixture for each 100 males and one fixture for each 75 females.

(16) The number of water closets required for places of worship and undertaking premises shall be not less than one fixture for each 150 persons of each sex.

**3.7.4.4. Plumbing Fixtures for Care or Detention Occupancies**

(1) The number of water closets and lavatories required for Group B, Division 1 *occupancies* shall be determined on the basis of the special needs of these *occupancies*.

(2) In a Group B, Division 2 or 3 *occupancy*, washrooms shall be provided so that each washroom

- (a) serves not more than four patients or residents,
- (b) is accessible from patients' or residents' sleeping rooms,
- (c) contains one water closet, and
- (d) contains one lavatory.

(3) The number of water closets required for employees in Group B, Division 2 or 3 *occupancies* shall conform to Table 3.7.4.4.

**Table 3.7.4.4.**

**Water Closets in Group B, Division 2 or 3 Occupancies**

Forming Part of Sentence 3.7.4.4.(3)

Number of Persons of Each Sex	Minimum Number of Water Closets for Each Sex
up to 9	1
10 to 24	2
25 to 49	3
50 to 74	4
75 to 100	5
over 100	6 plus 1 for each additional increment of 30 persons of each sex in excess of 100
Column 1	2

**3.7.4.5. Plumbing Facilities for Dwelling Units**

(1) A kitchen sink, lavatory, water closet and bathtub or shower stall shall be provided for every *dwelling unit* where a piped water supply is available.

**3.7.4.6. Plumbing Fixtures for Other Residential Occupancies**

(1) Except for *dwelling units* and as provided in Sentence (2), the number of water closets required for *residential occupancies* shall conform to Table 3.7.4.6.

**Table 3.7.4.6.**

**Water Closets For Residential Occupancies**

Forming Part of Sentence 3.7.4.6.(1)

Number of Persons of Each Sex	Minimum Number of Water Closets for Each Sex
up to 9	1
10 to 24	2
25 to 49	3
50 to 74	4
75 to 100	5
over 100	6 plus 1 for each additional increment of 30 persons of each sex in excess of 100
Column 1	2

(2) Not less than one water closet or privy shall be provided for every

- (a) 10 campers of each sex in a *recreational camp*, and
- (b) 10 employees of each sex in a *camp for housing of workers*.

(3) In *recreational camps* and *camps for housing of workers*, not less than two lavatories or provision for a pail or other portable container of sound construction shall be provided for each of the water closets or privies required in Sentence (2).

(4) A *camp for housing of workers* shall include

- (a) not less than one shower or other area of bathing, and
- (b) provisions for not less than one washing machine or laundry tub for every 15 beds.

**3.7.4.7. Plumbing Fixtures for Business and Personal Services Occupancies**

(1) Except as provided in Sentence (2), the number of water closets required for *business and personal services occupancies* shall conform to Table 3.7.4.7.

**Table 3.7.4.7.**

**Water Closets for Business and Personal Services Occupancies**

Forming Part of Sentence 3.7.4.7.(1)

Number of Persons of Each Sex	Minimum Number of Water Closets for Each Sex
up to 9	1
10 to 24	2
25 to 49	3
50 to 74	4
75 to 100	5
over 100	6 plus 1 for each additional increment of 30 persons of each sex in excess of 100
Column 1	2



(2) Not more than one water closet to serve both sexes need be provided in a Group D *occupancy* having an *occupant load* of not more than 5 persons.

### 3.7.4.8. Plumbing Fixtures for Mercantile Occupancies

(1) Except as provided in this Article, the number of water closets required for employees in *mercantile occupancies* shall conform to Table 3.7.4.8.

**Table 3.7.4.8.**

#### Water Closets for Mercantile Occupancies

Forming Part of Sentence 3.7.4.8.(1)

Number of Persons of Each Sex	Minimum Number of Water Closets for Each Sex
up to 9	1
10 to 24	2
25 to 49	3
50 to 74	4
75 to 100	5
over 100	6 plus 1 for each additional increment of 30 persons of each sex in excess of 100
Column 1	2

(2) Except as provided in Sentence (4), the number of water closets required for the public in *mercantile occupancies* shall be not less than one fixture for each 300 males and one fixture for each 150 females, except that

(a) water closets provided for employees are permitted to be counted as part of those required for the public when these water closets are made accessible to the public, and

(b) where the total area of the *mercantile occupancy*, excluding *basements*, is not more than 600 m<sup>2</sup>, not more than one water closet for each sex need be provided.

(3) Not more than one water closet to serve both sexes need be provided in a Group E *occupancy* where

(a) the *occupant load* is not more than 9 persons, or

(b) where the total area of the *occupancy*, excluding *basements*, is not more than 300 m<sup>2</sup>.

(4) For a restaurant classified as *mercantile occupancy*, the number of water closets and lavatories required shall conform to Article 3.7.4.3.

### 3.7.4.9. Plumbing Fixtures for Industrial Occupancies

(1) Except as provided in Sentence (2), the number of water closets and lavatories required for *industrial occupancies* shall conform to Table 3.7.4.9.

**Table 3.7.4.9.**

#### Plumbing Fixtures for Industrial Occupancies

Forming Part of Sentence 3.7.4.9.(1)

Number of Persons of Each Sex	Minimum Number of Water Closets and Lavatories for Each Sex
up to 9	1
10 to 24	2
25 to 49	3
50 to 74	4
75 to 100	5
over 100	6 plus 1 for each additional increment of 30 persons of each sex in excess of 100
Column 1	2

(2) Not more than one water closet to serve both sexes need be provided in a Group F *occupancy* where

(a) the *occupant load* is not more than 9 persons, or

(b) the total area of the *occupancy*, excluding *basements*, is not more than 300 m<sup>2</sup>.

### 3.7.4.10. Plumbing Fixtures for Mobile Home Facilities

(1) If mobile homes do not have individual plumbing facilities connected to a central water supply and drainage system, a service building shall be provided for public use.

(2) The service building required by Sentence (1) shall contain

(a) at least one water closet for each sex if the service building facilities serve not more than 10 mobile homes, and

(b) an additional water closet for each sex for each additional 10 mobile homes.

(3) If a service building is required by Sentence (1) it shall contain lavatories as required by Sentence 3.7.4.2.(5) and at least

(a) one laundry tray or similar facility, and

(b) one bathtub or shower for each sex.

### 3.7.4.11. Safety Glass

(1) Glass, other than safety glass, shall not be used for a shower or bathtub enclosure.

### 3.7.4.12. Surface Protection near Urinals

(1) Wall and floor surfaces below the uppermost surfaces of urinals shall be protected from deterioration for a distance from the urinal to a point not less than 900 mm from the projected outline of the urinal on to the wall or floor by impervious and durable material.

### 3.7.4.13. Floor Drains

(1) A floor drain shall be installed in a washroom containing urinals equipped with automatic flushing devices.

### 3.7.4.14. Grab Bar Installation

(1) Grab bars that are installed shall resist a minimum load of 1.3 kN applied vertically or horizontally.

**3.7.4.15. Location of Plumbing Fixtures**

- (1) A room containing a water closet shall be located where
  - (a) it does not open directly into any room or area where food is intended to be stored, prepared, processed, distributed, served, sold or offered for sale, and
  - (b) it is not necessary for the public to go through the food preparation areas to gain access to the *plumbing fixtures*.

(2) Except as permitted in Sentence (3), a room containing *plumbing fixtures* for the public and employees in a restaurant shall be located in the restaurant.

(3) The room containing *plumbing fixtures* for the public in Sentence (2) need not be located in the restaurant where

- (a) the room is located in the *building* containing the restaurant, and
- (b) the distance of travel between the restaurant and the room is not more than 45 m.

**3.7.4.16. Privacy**

(1) If a room contains not more than 1 water closet, the doorway to the room shall be provided with a full height door which is capable of being locked from the inside.

(2) If a room contains not less than 2 water closets or not less than 1 water closet and 1 urinal, the room shall be designed so that water closets, urinals and lavatories are not visible from the entrance to the room.

**3.7.4.17. Water Temperature Control**

(1) A water distribution system supplying hot water to bathtubs, showers and hand basins that are accessible to patients or residents in Group B, Division 2 or 3 *occupancies* or residents of a group home, shall have one or more temperature gauges and control devices that are

- (a) accessible only to supervisory staff, and
- (b) capable of being adjusted to ensure that the temperature of the water supplied to the fixtures does not exceed 49°C.

**3.7.4.18. Drinking Water**

(1) On every floor where work will be performed and within 100 m of any area where work will be performed, *potable* water shall be provided from

- (a) a fountain with an upward jet,
- (b) a tap from a piped water supply, or
- (c) a tap from a covered vessel.

**3.7.4.19. Pharmacies**

(1) Every *pharmacy* shall be provided with a sink with hot and cold *potable* water for washing utensils used in the preparation, service or storage of drugs.

**3.7.5. Health Care Facility Systems****3.7.5.1. Electrical Systems**

(1) In anaesthetizing locations, electrical systems shall be designed, constructed, installed and tested in conformance with CSA Z32.1, "Code for Prevention of Explosions or Electrical Shock in Hospital Operating Rooms".

**3.7.5.2. Medical Gas Piping**

(1) All medical gas piping systems shall be designed, constructed, installed and tested in conformance with CSA Z305.1, "Nonflammable Medical Gas Piping Systems".

**3.7.5.3. Shielding of X-Ray Equipment**

(1) Every installation of an *x-ray machine* or of *x-ray equipment* in a *building* shall be shielded to protect any person who could be exposed to radiation inside and outside the *building*.

**Section 3.8. Barrier-Free Design****3.8.1. General****3.8.1.1. Application**

- (1) The requirements of this Section apply to all *buildings* except
  - (a) houses, including semi-detached houses, duplexes, triplexes, town houses, row houses and boarding or rooming houses with fewer than 8 boarders or roomers,
  - (b) *buildings* of Group F, Division 1 *major occupancy*, and
  - (c) *buildings* which are not intended to be occupied on a daily or full time basis, including automatic telephone exchanges, pumphouses and substations.

**3.8.1.2. Entrances**

(1) In addition to the *barrier-free* entrances required by Sentence (2), the number of *barrier-free* entrances in a *building* referred to in Sentence 3.8.1.1.(1) shall be not less than those as specified in Table 3.8.1.2. and shall lead from

- (a) the outdoors at sidewalk level, or
- (b) a ramp that conforms to Article 3.8.3.4. and leads from a sidewalk.

Table 3.8.1.2.

**Minimum Number of Pedestrian Entrances  
Required to be Barrier-Free**

Forming Part of Sentence 3.8.1.2.(1)

Number of pedestrian entrances into building	Minimum number of pedestrian entrances required to be barrier-free
1 to 3	1
more than 3 to 5	2
more than 5	not less than 50 percent
Column 1	2

(2) A *suite of assembly occupancy, business and personal services occupancy* or *mercantile occupancy* that is located in the *first storey* of a *building* or in a *storey* to which a *barrier-free* path of travel is provided, and that is separated from the remainder of the *building*, so that there is no access to the remainder of the *building*, shall have at least one *barrier-free* entrance.

(3) A *barrier-free* entrance required by Sentences (1) or (2) shall be designed in accordance with Article 3.8.3.3.

(4) At a *barrier-free* entrance that includes more than one doorway, only one of the doorways is required to be designed in accordance with the requirements of Article 3.8.3.3.

### 3.8.1.3. Barrier-Free Path of Travel

(1) Except as required in Sentence (4) and except as permitted in Subsection 3.8.3., every *barrier-free* path of travel shall provide an unobstructed width of at least 1 060 mm for the passage of wheelchairs.

(2) Interior and exterior walking surfaces that are within a *barrier-free* path of travel shall

- (a) have no opening that will permit the passage of a sphere more than 13 mm in diam,
- (b) have any elongated openings oriented approximately perpendicular to the direction of travel,
- (c) be stable, firm and slip-resistant,
- (d) be bevelled at a maximum slope of 1 in 2 at changes in level not more than 13 mm, and
- (e) be provided with sloped floors or ramps at changes in level more than 13 mm.

(3) A *barrier-free* path of travel is permitted to include ramps, elevators or other platform elevating devices where there exists a difference in elevation.

(4) Every *barrier-free* path of travel less than 1 600 mm in width shall be provided with an unobstructed space not less than 1 600 mm in width and 1 600 mm in length located not more than 30 m apart.

(5) Where the headroom of an area in a *barrier-free* path of travel is reduced to less than 1 980 mm, a guardrail or other barrier with its leading edge at or below 680 mm from the floor shall be provided.

### 3.8.1.4. Storeys Served by Escalators

(1) In a *building* in which an escalator provides access to any *storey* above or below the entrance *storey*, an interior *barrier-free* path of travel shall be provided to that *storey*.

### 3.8.1.5. Controls

(1) Except as provided in Article 3.8.3.5. for elevators, controls for the operation of *building* services or safety devices, including electrical switches, thermostats and intercom switches, intended to be operated by the occupant and located in a *barrier-free* path of travel shall be accessible to a person in a wheelchair, operable with one hand and mounted at not more than 1 200 mm above the floor.

### 3.8.1.6. Illumination

(1) All portions of a *barrier-free* path of travel shall be equipped to provide a level of illumination in accordance with Sentence 3.2.7.1.(1).

### 3.8.2. Occupancy Requirements

#### 3.8.2.1. Areas Requiring Barrier-Free Path of Travel

(1) Except where essential obstructions in the work area would make a *barrier-free* path of travel hazardous, and except as provided in Sentences (2), (3) and (4), a *barrier-free* path of travel from the entrances required by Sentences 3.8.1.2.(1) and (2) to be *barrier-free* shall be provided throughout the entrance *storey* and within all normally occupied *floor areas* served by a passenger type elevator or other platform equipped passenger elevating device.

(2) The provision of a *barrier-free* path of travel in Sentence (1) does not apply

- (a) to *service rooms*,
- (b) to elevator machine rooms,
- (c) to janitors rooms,
- (d) to *service spaces*,
- (e) to crawl spaces,
- (f) to *attic or roof spaces*,
- (g) to *mezzanines* not served by a passenger elevator or other platform equipped passenger elevating device,
- (h) to *high hazard industrial occupancies*
- (i) within portions of a *floor area* with fixed seats in an *assembly occupancy* where these portions are not part of the *barrier-free* path of travel to spaces designated for wheelchair use,
- (j) into *suites of residential occupancy* that are in *storeys* other than the entrance *storey* and that have all entrance doors at floor levels that do not correspond to elevator stop levels,
- (k) within a *suite of residential occupancy*, or
- (l) within those parts of a *floor area* that are not at the same level as the entry level, provided amenities and uses provided on any raised or sunken level are accessible on the entry level by means of a *barrier-free* path of travel.

(3) Where a balcony is provided in a *dwelling unit*, access shall be provided to the balcony

- (a) by a doorway with a clear width of not less than 800 mm when the door is in the open position, and
- (b) such that no projection above the walking surface is more than 13 mm.

(4) The minimum number of spaces designated for wheelchair use in an *assembly occupancy* with fixed seats shall conform to Table 3.8.2.1.



Table 3.8.2.1.

**Designated Wheelchair Spaces**

Forming Part of Sentence 3.8.2.1.(4)

Number of Fixed Seats in Seating Area	Minimum Number of Spaces Required for Wheelchairs
up to 100	2
101 to 200	3
201 to 300	4
301 to 400	5
401 to 600	6
Over 600	Not less than 1 per cent of the seating capacity
Column 1	2

**3.8.2.2. Access to Parking Areas**

(1) A *barrier-free* path of travel shall be provided from the entrance described in Article 3.8.1.2. to

- (a) an exterior parking area, where exterior parking is provided, and
- (b) at least one parking level, where a passenger elevator serves an indoor parking level.

(2) The vehicular entrance to and egress from at least one parking level described in Sentence (1) and all areas intended to be used by wheelchair accessible vehicles to gain access to a parking space on that level shall have a vertical clearance of not less than 2 100 mm.

(3) If an exterior passenger loading zone is provided, it shall have

- (a) an access aisle not less than 1 750 mm wide and 7.5 m long adjacent and parallel to the vehicle pull-up space,
- (b) a curb ramp, where there are curbs between the access aisle and the vehicle pull-up space, and
- (c) a clearance height of not less than 2 750 mm at the vehicle pull-up space and along the vehicle access and egress routes.

**3.8.2.3. Washrooms Required to be Barrier-Free**

(1) Except where other *barrier-free* washrooms are provided on the same floor level within 45 m and except within *suites of residential occupancy*, and *buildings* exempted in Clauses 3.8.1.1.(1)(a), (b) and (c), in *buildings* where a washroom is required in accordance with Subsection 3.7.4., a *barrier-free* path of travel shall be provided to a *barrier-free* washroom designed to accommodate disabled persons in conformance with the appropriate requirements in Articles 3.8.3.8. to 3.8.3.12.

(2) Except as permitted in Sentence (3), where washrooms in excess of those required by Subsection 3.7.4. are provided in a *storey* to which a *barrier-free* path of travel is required in conformance with Article 3.8.2.1., these washrooms shall be designed to accommodate disabled persons in conformance with the appropriate requirements in Articles 3.8.3.8. to 3.8.3.12.

(3) Washrooms need not conform to the requirements in Sentence (2) provided

- (a) they are located within *suites of residential occupancy*,

(b) other *barrier-free* washrooms are provided on the same floor level within 45 m, or

(c) they are located in an individual *suite* having an area of less than 300 m<sup>2</sup> in *buildings* where such *suite* is completely cut off from the remainder of the *building* so that there is no access to the remainder of the *building*.

**3.8.3. Design Standards****3.8.3.1. Accessibility Signs**

(1) Where a *building* is required to have a *barrier-free* entrance to accommodate disabled persons, signs incorporating the international symbol of accessibility for disabled persons shall be installed where necessary to indicate the location of that entrance.

(2) Where a washroom, elevator, telephone or parking area is required to accommodate disabled persons, it shall be identified by a sign consisting of the international symbol of accessibility for disabled persons and such other graphic, tactile or written directions as are needed to indicate clearly the type of facility available.

(3) Where a washroom is not designed to accommodate disabled persons in a *storey* to which a *barrier-free* path of travel is required, signs shall be provided to indicate the location of the *barrier-free* facilities.

(4) Signs incorporating the international symbol of accessibility for disabled persons shall be installed where necessary to indicate the location of the accessible *means of egress*.

**3.8.3.2. Exterior Walks**

(1) Except as provided in Sentence (2), exterior walks that form part of a *barrier-free* path of travel shall

- (a) be provided by means of a continuous plane not interrupted by steps or abrupt changes in level,
- (b) have a permanent, firm and slip-resistant surface,
- (c) except as required in Sentence 3.8.1.3.(4), have an uninterrupted width of not less than 1 100 mm and a gradient not exceeding 1 in 20,
- (d) be designed as a ramp where the gradient is greater than 1 in 20,
- (e) have not less than 1 100 mm wide surface of a different texture to that surrounding it, where the line of travel is level and even with adjacent walking surfaces,
- (f) be free from obstructions for the full width of the walk to a minimum height of 1 980 mm, except that handrails are permitted to project not more than 100 mm from either side into the clear area, and
- (g) have a level area adjacent to the entrance doorway conforming to Clause 3.8.3.4.(1)(c).

(2) Where a difference in elevation between levels in a walkway is not more than 200 mm, a curb ramp conforming the Sentences (3) and (4) may be provided.

(3) The curb ramp permitted by Sentence (2) shall

- (a) have a running slope of not more than permitted in Table 3.8.3.2.,
- (b) have a width of not less than 1 200 mm exclusive of flared sides,

- (c) have a surface including flared sides which shall
- (i) be slip resistant,
  - (ii) have a detectable warning surface that is colour- and texture-contrasted with the adjacent surfaces, and
  - (iii) have a smooth transition from the ramp and adjacent surfaces, and
- (d) have flared sides with a slope of not more than 1:10 where pedestrians are likely to walk across them.
- (4) Curb ramps described in Sentence (3) do not require handrails or guards.

Table 3.8.3.2.

**Ramp Rise and Slope**

Forming Part of Sentence 3.8.3.2.(3)

Maximum Vertical Rise Between Surfaces, mm	Maximum Slope
200	1:10 to 1:12
75	1:8 to 1:10
Column 1	2

**3.8.3.3. Doorways and Doors**

(1) Every doorway that is located in a *barrier-free* path of travel shall have a clear width of not less than 810 mm when the door is in the open position,

(2) Except where no bathroom within the *suite* is at the level of the *suite* entrance door to which a *barrier-free* path of travel is provided in accordance with Sentence 3.8.2.1.(1), the doorway to at least 1 bathroom and to each bedroom at the same level as such bathroom within a *suite* of *residential occupancy* shall have, when the door is in the open position, a clear width of not less than

(a) 760 mm where the door is served by a corridor or space not less than 1 060 mm wide, and

(b) 810 mm where the door is served by a corridor or space less than 1 060 mm wide

(3) Door opening devices that are the only means of operation shall be of a design which does not require tight grasping and twisting of the wrist.

(4) Thresholds for doorways referred to in Sentences (1) and (2) shall not exceed 13 mm in height above the finished floor surface and shall be bevelled to facilitate the passage of wheelchairs.

(5) Except as permitted in Sentence (7), the door for the entrance described in Article 3.8.1.2. shall be equipped with a power door operator in

(a) *hotels*,

(b) *buildings* of Group B, Division 2 or 3 *major occupancy*, and

(c) *buildings* of Group A, D or E *major occupancy* having more than 300 m<sup>2</sup> in *building area*.

(6) Except as permitted in Sentence (7), where the entrance described in Article 3.8.1.2. incorporates a vestibule, a door leading from the vestibule into the floor area shall be equipped with a power door operator in

(a) *hotels*,

(b) *buildings* of Group B, Division 2 and 3, *major occupancy*, and

(c) *buildings* of Group A, D or E *major occupancy* having more than 300 m<sup>2</sup> in *building area*.

(7) The requirements in Sentence (5) and (6) do not apply to an individual *suite* having an area of less than 300 m<sup>2</sup> in *buildings* having only *suites* of Group A, D or E *occupancy* where such *suite* is completely cut off from the remainder of the *building*.

(8) Except as permitted in Sentence (9), and except for doors with power operators, closers for doors in a *barrier-free* path of travel shall be designed to permit doors to open when a force of not more than 38 N is applied to the handles, push plates or latch-releasing devices in the case of exterior doors and 22 N in the case of interior doors.

(9) Sentence (8) does not apply to doors at the entrances to *dwelling units*, or where greater forces are required in order to close and latch the doors against prevailing differences in air pressures on opposite sides of the doors.

(10) Except for doors at the entrances to *dwelling units*, closers for interior doors in a *barrier-free* path of travel shall have a closing period of not less than 3 seconds measured from when the door is in an open position of 70° to the doorway, to when the door reaches a point 75 mm from the closed position, measured from the leading edge of the latch side of the door.

(11) Every door equipped with a closer in a *barrier-free* path of travel shall have a clear space beyond the latch side of not less than

(a) 600 mm where the door swings towards the approach side, and

(b) 300 mm where the door swings away from the approach side.

(12) Vestibules located in a *barrier-free* path of travel shall be arranged to allow the movement of wheelchairs between doors and shall provide a distance between 2 doors in series of at least 1 200 mm plus the width of any door that swings into the space in the path of travel from one door to another.

(13) Only the active leaf in a multiple leaf door in a *barrier-free* path of travel need conform to the requirements of this Article.

(14) Where a vision panel is provided in a door in a *barrier-free* path of travel, such panel shall be at least 75 mm in width and be located so that

(a) the bottom of the panel is not more than 900 mm above the finished floor, and

(b) the edge of the panel closest to the latch is not more than 250 mm from the latch side of the door.

(15) A door in a *barrier-free* path of travel consisting of a sheet of glass shall be marked with a continuous opaque strip which

(a) shall be colour and brightness contrasted to the background of the door,

(b) shall be at least 50 mm wide,

(c) shall be located across the width of the door at a height of 1 350 mm to 1 500 mm above the finished floor, and



- (d) may incorporate a logo or symbol provided such logo or symbol does not diminish
  - (i) the opacity of the strip,
  - (ii) the width of the strip,
  - (iii) the colour and brightness contrast of the strip to the background of the door, and
  - (iv) the continuity of the strip across the width of the door.

### 3.8.3.4. Ramps

- (1) Ramps located in a *barrier-free* path of travel shall
  - (a) have a minimum width of 870 mm between handrails,
  - (b) have a maximum gradient of 1 in 12,
  - (c) have a level area of at least 1 500 mm by 1 500 mm at the top and bottom of a ramp and where a door is located in a ramp, so that the level area extends at least 600 mm beyond the latch side of the door opening, except that where the door opens away from the ramp, the area extending beyond the latch side of the door opening may be reduced to 300 mm,
  - (d) have a level area at least 1 500 mm long and at least the same width as the ramp
    - (i) at intervals of not more than 9 m along its length, and
    - (ii) where there is an abrupt change in the direction of the ramp,
  - (e) except as provided in Sentence (2), be equipped with handrails on both sides which shall
    - (i) be continuously graspable along their entire length and have circular cross-section with an outside diameter not less than 30 mm and not more than 40 mm, or any non-circular shape with a graspable portion that has a perimeter not less than 100 mm and not more than 155 mm and whose largest cross-sectional dimension is not more than 57 mm,
    - (ii) be not less than 865 mm and not more than 965 mm high, measured vertically from the surface of the ramp, except that handrails not meeting these requirements are permitted provided they are installed in addition to the required handrail,
    - (iii) be terminated in a manner which will not obstruct pedestrian travel or create a hazard,
    - (iv) extend horizontally not less than 300 mm beyond the top and bottom of the ramp,
    - (v) be provided with a clearance of not less than 40 mm between the handrail and any wall to which it is attached, and
    - (vi) be designed and constructed such that handrails and their supports will withstand the loading values obtained from the nonconcurrent application of a concentrated load not less than 0.9 kN applied at any point and in any direction for all handrails and a uniform load not less than 0.7 kN/m applied in any direction to the handrail,
  - (f) except as provided in Sentence (2), have a wall or a *guard* on both sides and where a *guard* is provided the *guard* shall

- (i) be not less than 1 070 mm measured vertically to the top of the *guard* from the ramp surface, and
  - (ii) be designed so that no member, attachment or opening located between 140 mm and 900 mm above the ramp surface being protected by the *guard* will facilitate climbing, and
- (g) be provided
  - (i) with a curb at least 50 mm high on any side of the ramp where no solid enclosure or solid *guard* is provided, and
  - (ii) with railings or other barriers that extend to within 50 mm of the finished ramp surface or have a curb not less than 50 mm high.

(2) Where a ramp serves as an aisleway for fixed seating, the requirements for handrails in Clause 3.8.3.4.(1)(e) need not apply.

(3) Floors or walks in a *barrier-free* path of travel having a slope steeper than 1 in 20 shall be designed as ramps.

### 3.8.3.5. Elevators

(1) The passenger-type elevator in Article 3.8.2.1. shall conform to Appendix E of CAN/CSA B44, "Safety Code for Elevators".

(2) The passenger-type elevating device in Article 3.8.2.1. shall conform to CAN/CSA-B355, "Lifts for Persons with Physical Disabilities".

### 3.8.3.6. Spaces in Seating Area

- (1) Spaces designated for wheelchair use in Sentence 3.8.2.1.(4) shall be
  - (a) clear and level or level with removable seats,
  - (b) not less than 900 mm wide and 1 525 mm long to permit a wheelchair to enter from a side approach, and 1 220 mm long where the wheelchair enters from the front or rear of the space,
  - (c) arranged so that at least two designated spaces are side by side,
  - (d) located adjoining a *barrier-free* path of travel without infringing on egress from any row of seating or any aisle requirements, and
  - (e) situated, as part of the designated seating plan, to provide a choice of viewing location and a clear view of the event taking place.

### 3.8.3.7. Assistive Listening Devices

(1) In *buildings* of *assembly occupancy*, all classrooms, auditoria, meeting rooms and *theatres* with an area of more than 100 m<sup>2</sup> and an *occupant load* of more than 75 shall be equipped with assistive listening systems encompassing the entire seating area.

### 3.8.3.8. Water Closet Stalls

- (1) Where a washroom is required by Article 3.8.2.3. to *barrier-free*, at least 1 water closet stall or enclosure shall
  - (a) be at least 1 500 mm in width by 1 500 mm in depth,
  - (b) be equipped with a door which shall
    - (i) be capable of being locked from the inside with a locking mechanism that is operable by one hand,



- (ii) provide, when the door is in an open position, a clear opening of at least 810 mm,
  - (iii) swing outward, unless 760 mm by 1 220 mm clear floor area is provided within the stall or enclosure to permit the door to be closed without interfering with the wheelchair,
  - (iv) be provided with spring-type or gravity hinges so that the door closes automatically,
  - (v) be provided with a door pull on the outside, near the latch side of the door, and
  - (vi) be aligned with the clear manoeuvring space adjacent to the water closet,
- (c) have a water closet located so that its centreline is not less than 460 mm and not more than 480 mm from an adjacent side wall on one side,
- (d) be equipped with grab bars which shall
- (i) be at least 760 mm in length and mounted at a 30° to 50° angle sloping upwards, away from the water closet with the lower end of the bar mounted 230 mm above the toilet seat and 50 mm in front of the toilet bowl, or alternatively, be L-shaped with 760 mm long horizontal and vertical components mounted with the horizontal component 230 mm above the toilet seat and the vertical component 150 mm in front of the toilet bowl,
  - (ii) be at least 600 mm in length mounted horizontally on the wall behind the water closet from 840 mm to 920 mm above the floor and, where the water closet has a water tank, be mounted 150 mm above the tank,
- (iii) Reserved
- (iv) be installed to resist a load of at least 1.3 kN applied vertically or horizontally,
  - (v) be not less than 30 mm and not more than 40 mm in diameter,
  - (vi) have a clearance of 30 mm to 40 mm from the wall, and
  - (vii) have a slip resistant surface,
- (e) be equipped with a coat hook mounted not more than 1 200 mm above the floor on a side wall and projecting not more than 50 mm from the wall,
- (f) have a clearance of at least 1 700 mm between the outside of the stall face and the face of an in-swinging washroom door and 1 400 mm between the outside of the stall face and any wall-mounted fixture or other obstruction, and
- (g) when a toilet paper dispenser is provided, provide a dispenser that is
- (i) wall mounted,
  - (ii) located below the grab bar,
  - (iii) in line with or not more than 300 mm in front of the toilet seat, and
  - (iv) not less than 600 mm above the floor.

### 3.8.3.9. Water Closets

- (1) Water closets for a person with physical disabilities shall
- (a) be equipped with a seat located at not less than 400 mm and not more than 460 mm above the floor,
  - (b) be equipped with hand-operated flushing controls that are easily accessible to a wheelchair user or be automatically operable,
  - (c) be equipped with a back support where there is no seat lid or tank, and
  - (d) not have a spring-activated seat.

### 3.8.3.10. Reserved

### 3.8.3.11. Lavatories

(1) A *barrier-free* washroom shall be provided with a lavatory which shall

- (a) be located so that the distance between the centreline of the lavatory and the side wall is not less than 460 mm,
- (b) be mounted so that the top of the lavatory or, where the lavatory is in a vanity, the top of the vanity is not more than 840 mm above the finished floor,
- (c) have a clearance beneath the lavatory not less than
  - (i) 760 mm wide,
  - (ii) 735 mm high at the front edge,
  - (iii) 685 mm high at a point 205 mm back from the front edge, and
  - (iv) 230 mm high over the distance from a point 280 mm to a point 430 mm back from the front edge,
- (d) have insulated pipes where they would otherwise present a burn hazard or have water supply temperature limited to a maximum of 43°C,
- (e) be equipped with faucet handles of the lever type without spring loading or be automatically operable and are located so that the distance from the centreline of the faucet to the edge of the basin or, where the basin is mounted in a vanity, to the front edge of the vanity, is not more than 485 mm, and
- (f) have soap or towel dispensers that are
  - (i) located to be accessible to persons in a wheelchair,
  - (ii) located so that the dispensing height is not more than 1 200 mm above the floor, and
  - (iii) operable with one hand.

(2) The lavatory required by Sentence (1) is permitted to be built into a counter provided the height and clearances required by Sentence (1) are maintained.

(3) Shelves or other projections above lavatories shall be located so that they will not present a hazard to a person with a visual disability.

(4) If mirrors are provided in a *barrier-free* washroom, at least one mirror shall be

- (a) mounted with its bottom edge not more than 1 000 mm above the floor, or
- (b) inclined to the vertical to be usable by a person in a wheelchair.

(5) If dispensing or hand-operated washroom accessories, except those located in toilet stalls or described in Clause 3.8.3.11.(1)(f), are provided, they shall be mounted so that the dispensing height is between 900 mm and 1 200 mm above the floor.

### 3.8.3.12. Special Washrooms

(1) A special washroom provided primarily for the use of persons of both sexes with physical disabilities, in lieu of facilities for persons with physical disabilities in washrooms used by the general public, shall

- (a) be provided on the same floor level within 45 m of the washrooms described in Sentence 3.8.2.3.(1),
- (b) be equipped with a door capable of being locked from the inside with one hand and released from the outside in case of emergency and which has
  - (i) graspable latch operating and locking mechanisms located not less than 900 mm and not more than 1 000 mm above the floor, and
  - (ii) on an outward swinging door, a door pull not less than 140 mm long located on the inside so that its midpoint is not less than 200 mm and not more than 300 mm from the hinged side of the door and not less than 900 mm and not more than 1 000 mm above the floor,
- (c) be provided with a lavatory conforming to Article 3.8.3.11.,
- (d) be equipped with a water closet conforming to the requirements of Article 3.8.3.9. and located
  - (i) so that its centreline is not less than 460 mm and not more than 480 mm from an adjacent side wall on one side, and
  - (ii) not less than 1 020 mm to the wall on the other side,
- (e) be equipped with grab bars conforming to Clause 3.8.3.8.(1)(d),
- (f) have no dimension less than 1 700 mm,
- (g) have fixture clearances conforming to Articles 3.8.3.8. and 3.8.3.11.,
- (h) be equipped with
  - (i) a coat hook conforming to Clause 3.8.3.8.(1)(e), and
  - (ii) a shelf located not more than 1 000 mm above the floor in a location accessible to a person in a wheelchair,
- (i) have a doorway conforming to Article 3.8.3.3.,
- (j) be designed to permit a wheelchair to back in alongside the water closet in the space referred to in Subclause (d)(ii), and
- (k) be designed to permit a wheelchair to turn in an open space that has a diameter not less than 1 500 mm.

### 3.8.3.13. Showers

(1) Where individual shower stalls are provided in *buildings of assembly occupancy*, at least one shower stall shall be *barrier-free* and shall

- (a) be at least 1 500 mm in width and 900 mm in depth,
  - (b) have a clear floor space at the entrance to the shower of at least 900 mm in depth and the same width as the shower, except that fixtures are permitted to project into that space provided they do not restrict access to the shower,
  - (c) have a slip-resistant floor surface,
  - (d) have a bevelled threshold not exceeding 13 mm in height above the finished floor,
  - (e) be equipped with a wall mounted folding seat that is not spring-loaded or provision for a portable seat that is
    - (i) 38 mm to 62 mm less than the shower compartment depth in width by 430 mm to 530 mm in depth,
    - (ii) mounted approximately 450 mm above the floor, and
    - (iii) designed to carry a minimum load of 1.33 kN,
  - (f) be equipped with a grab bar which shall
    - (i) be at least 900 mm in length,
    - (ii) be mounted approximately 850 mm above the floor,
    - (iii) be located on the wall so that at least 300 mm of its length is reachable from one side of the seat, and
    - (iv) conform to Subclauses 3.8.3.8.(1)(d)(iv),(v) and (vi),
  - (g) be equipped with a pressure-equalizing or thermostatic mixing valve controlled by lever or other device operable with a closed fist from the seated position,
  - (h) be equipped with a hand-held shower head with at least 1 500 mm of flexible hose located so that it can be reached from the seated position and equipped with a support so that it can operate as a fixed shower head, and
    - (i) have fully recessed soap holders which can be reached from the seated position.
- (2) Individual shower stalls that are provided for use by patients or residents in *buildings* of Group B, Division 2 or 3 *occupancy* shall conform to the requirements of Sentence (1).
- (3) Individual bathtubs that are provided for the use of patients or residents in *buildings* of Group B, Division 2 or 3 *occupancy* shall have
- (a) faucet handles of the lever type that are not spring-loaded or be automatically operable,
  - (b) faucet handles that are located so as to be usable by a person seated in the bathtub, and
  - (c) unless the bathtub is free-standing, an "L"-shaped grab bar conforming to Subclauses 3.8.3.8.(1)(d)(iv) to (vi) mounted on the wall
    - (i) with each leg of the "L" being at least 900 mm long,

- (ii) with the legs of the "L" being separated by 90°,
- (iii) with the horizontal leg of the "L" being located between 150 mm and 200 mm above and parallel to the rim of the bathtub, and
- (iv) with the vertical leg of the "L" being located between 300 mm and 450 mm from the control end of the bathtub.

**3.8.3.14. Reserved****3.8.3.15. Shelves or Counters for Telephones**

(1) Where built-in shelves or counters are provided for public telephones, they shall be level and shall

- (a) be not less than 350 mm deep, and
- (b) have, for each telephone provided, a clear space not less than 250 mm wide having no obstruction within 250 mm above the surface.

(2) The top surface of a section of the shelf or counter described in Sentence (1) serving at least one telephone shall

- (a) be not more than 865 mm from the floor, and
- (b) have a knee space not less than 685 mm high.

(3) Where a wall-hung telephone is provided above the shelf or counter section described in Sentence (2), it shall be located so that the receiver and coin slot are not more than 1 200 mm from the floor.

**3.8.3.16. Drinking Fountains**

(1) Where drinking fountains are provided, at least one shall be *barrier-free* and shall

- (a) have a spout located near the front of the unit not more than 915 mm above the floor, and
- (b) be equipped with controls that are easily operated from a wheelchair using one hand with a force of not more than 22 N or be automatically operable.

**Section 3.9. Portable Classrooms****3.9.1. Scope****3.9.1.1. Application**

(1) Except as provided in this Section, the requirements in the Code apply to portable classrooms.

**3.9.1.2. Heating Systems**

(1) Heating systems and equipment in a portable classroom shall be designed and installed in accordance with Section 6.2.

**3.9.2. Interior Finish****3.9.2.1. Flame-Spread Rating**

(1) Interior finish material used on a wall or ceiling of a portable classroom shall have a *flame-spread rating* of 150 or less.

**3.9.3. Application****3.9.3.1. Building Areas**

(1) A single portable classroom shall be not more than 100 m<sup>2</sup> in *building area*, and not more than 1 *storey* in *building height*.

(2) For the purposes of Subsection 3.2.2., where the horizontal distance between portable classrooms is less than 6 m, a group of portable classrooms may be considered as a single *building* with a *building area* equal to the aggregate area of the portable classrooms.

**3.9.3.2. Spatial Separations**

(1) The requirements in Subsection 3.2.3. need not be provided between individual portable classrooms where the distance between the classrooms is 6 m or more.

(2) The requirements in Subsection 3.2.3. need not be provided between individual portable classrooms within a group where

- (a) the portable classrooms are in groups where
  - (i) the distance between the classrooms is less than 6 m,
  - (ii) the number of classrooms in a group is not more than 6, and
  - (iii) the distance between groups of classrooms is 12 m or more, or
- (b) the portable classrooms are in groups where
  - (i) the *means of egress* for each classroom within a group is by a common corridor or passageway,
  - (ii) the number of portable classrooms in a group is not more than 6, and
  - (iii) the distance between groups of portable classrooms is 12 m or more.

**3.9.3.3. Fire Alarm Systems**

(1) Except as provided in Sentences (2) and (3), the fire alarm system in the main school *building* shall be extended to the portable classrooms with a separate zone indicator on the annunciator.

(2) The requirements in Sentence (1) need not be provided where there are not more than 12 portables on a site and where

- (a) Reserved
- (b) the distance between portable classrooms is less than 6 m and the requirements of Subsection 3.2.3. are applied between the classrooms, or
- (c) the portable classrooms are in groups where
  - (i) the distance between the classrooms is less than 6 m,
  - (ii) the number of classrooms in a group does not exceed 6,
  - (iii) within a group of classrooms, the facing walls have a *fire-resistance rating* of 45 min, rated from inside the classroom, and
  - (iv) the distance between groups of classrooms is 12 m or more.

(3) The requirements in Sentence (1) need not be provided where the distance between portable classrooms is 6 m or more.



**3.9.3.4. Provisions for Fire-fighting**

(1) The requirements in Articles 3.2.2.10. and 3.2.5.1. to 3.2.5.7. need not be provided where there are not more than 12 portable classrooms on a site and where

- (a) the distance between portable classrooms is 6 m or more,
- (b) the distance between portable classrooms is less than 6 m and the requirements of Subsection 3.2.3. are applied between the classrooms,
- (c) the portable classrooms are in groups where
  - (i) the distance between the classrooms is less than 6 m,
  - (ii) the number of classrooms in a group is not more than 6,
  - (iii) within a group of classrooms, the facing walls have a *fire-resistance rating* of 45 min, rated from inside the classroom, and
  - (iv) the distance between groups of classrooms is 12 m or more,
- (d) the portable classrooms are in groups where
  - (i) the distance between the classrooms is less than 6 m,
  - (ii) the number of classrooms in a group is not more than 6, and
  - (iii) the distance between groups of classrooms is 12 m or more, or
- (e) the portable classrooms are in groups where
  - (i) the *means of egress* for each classroom within a group is by a common corridor or passageway
  - (ii) the number of classrooms in a group is not more than 6, and
  - (iii) the distance between groups of classrooms is 12 m or more.

**3.9.3.5. Portable Fire Extinguishers**

(1) A fire extinguisher, in accordance with Article 3.2.5.17., shall be installed in each portable classroom.

**3.9.3.6. Means of Egress**

(1) Except as required in Sentence 3.9.3.7.(1), a portable classroom shall be provided with *means of egress* conforming to Sections 3.3. and 3.4.

**3.9.3.7. Fuel-Fired Appliances**

(1) Where there is only one egress door from a portable classroom, a fuel-fired *appliance* shall be separated from the remainder of the classroom by a *fire separation* with a *fire-resistance rating* of not less than 45 min.

(2) Except as provided in Sentences (3) and (4), if a portable classroom contains a fuel-fired *appliance*, the *appliance* shall be separated from the remainder of the classroom by a *fire separation* having a *fire-resistance rating* not less than

- (a) 1.5 h where the horizontal distance between portable classrooms is 1 500 mm or less, and

- (b) 45 min where the horizontal distance between portable classrooms is more than 1 500 mm.

(3) If the horizontal distance between portable classrooms is 6 m or more, a fuel-fired *appliance* need not be separated from the remainder of the classroom by a *fire separation* provided

- (a) there is not more than 1 *appliance* per portable classroom, and
- (b) the *appliance* is located not less than 4.5 m from an *egress* doorway or an *exit* from the portable classroom.

(4) Fuel-fired *appliances* with sealed combustion located in a portable classroom are not required to be separated from the remainder of the classroom

- (a) if there are not more than four portable classrooms in a group, and
- (b) if the *appliance* is located not less than 4.5 m from an egress doorway or an *exit* from the portable classroom.

**3.9.3.8. Washroom Facilities**

(1) Washroom facilities need not be provided in a portable classroom where the facilities in the main school *building* comply with the requirements of Subsection 3.7.4. for the total *occupant load* of the main school *building* and the portable classrooms.

**3.9.3.9. Barrier-Free Access**

(1) The requirements of Section 3.8. for *barrier-free* access need not be provided for a portable classroom provided that the main school *building* complies with the requirements of Section 3.8.

**Section 3.10. Self-Service Storage Buildings****3.10.1. Scope****3.10.1.1. Application**

(1) Except as provided in this Section, the requirements in the Code apply to *self-service storage buildings*.

**3.10.2. Requirements for All Buildings****3.10.2.1. Occupancy Classification**

- (1) A *self-service storage building*
  - (a) shall comply with the requirements for a Group F, Division 2 *major occupancy*, and
  - (b) shall not contain a Group F, Division 1 *occupancy*.

**3.10.2.2. Occupant Load**

- (1) The requirements based on *occupant load* shall not apply.

**3.10.2.3. Structural Fire Protection**

(1) Except as provided in Sentence (2) and Sentence 3.10.4.2.(1), the requirements in Subsections 3.2.1. and 3.2.2. shall apply.

(2) The *first storey* shall be subdivided into areas not more than 500 m<sup>2</sup> by a masonry or reinforced concrete *fire separation* having a *fire-resistance rating* not less than 1 h, or it shall be *sprinklered*.

**3.10.2.4. Safety Requirements Within Floor Areas**

(1) Except as provided in Sentences (2) to (12), the requirements in Section 3.3. shall apply.

(2) A corridor need not be constructed as a *public corridor* where the travel distance, measured from inside the rental space to the nearest *exit*, is not more than 15 m provided that the corridor walls

- (a) are of *noncombustible construction*,
- (b) have no openings other than doors and the doors are of solid construction, and
- (c) are continuous from the floor to the underside of the floor above, the ceiling or the roof.

(3) Where the *building* is *sprinklered*, doors in a *public corridor* do not require to be equipped with self-closing devices and latches provided that the travel distance is measured from inside the rental space to the nearest *exit*.

(4) Egress doors from a rental space are not required to swing in the direction of *exit* travel or swing on a vertical axis provided

- (a) the area of the rental space is not more than 50 m<sup>2</sup>, and
- (b) the distance of travel within the rental space is not more than 10 m.

(5) Where egress doors from a rental space open onto a corridor and swing in the direction of *exit* travel, the corridor shall be not less than 1 500 mm wide, and the doors shall be not more than 914 mm wide.

(6) Where egress doors from a rental space open onto a corridor and do not swing in the direction of *exit* travel, the corridor shall be not less than 1 100 mm in width.

(7) Dead end corridors are not permitted.

(8) Corridors shall be provided with

- (a) natural lighting which shall be uniformly distributed and be at least 4% of the corridor area, or
- (b) emergency lighting, conforming to Sentences 3.2.7.4.(1) and (2), which shall provide average levels of illumination not less than 10 lx at floor level.

(9) Not more than two *dwelling units* shall be contained within one of the *buildings* on the property.

(10) *Dwelling units* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 2 h.

(11) A *fire separation* is not required between a *dwelling unit* and an office where the office is not more than 50 m<sup>2</sup> in area.

(12) The *fire separations* required in Sentence 3.3.1.1.(1) need not be provided between individual rental spaces.

### 3.10.2.5. Exit Requirements

(1) Except as provided in Sentences (2) and (3), the requirements in Section 3.4. shall apply.

(2) The clear width of an *exit* stair shall be not less than 1 100 mm.

(3) *Exit* doors from rental spaces are not required to swing on a vertical axis provided

- (a) the area of the rental space is not more than 50 m<sup>2</sup>, and

(b) the travel distance within the rental space is not more than 10 m.

### 3.10.2.6. Service Facilities

(1) Except as provided in Sentence (2), the requirements in Section 3.6. shall apply.

(2) Except where located in and serving only the *dwelling units*, a fuel-fired *appliance* shall be located in a *service room* separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

### 3.10.2.7. Sanitary Facilities

(1) Except as provided in Sentence (2), the requirements in Subsection 3.7.4. shall apply.

(2) Except as permitted in Sentences 3.7.4.1.(2) and (3), two wash-rooms, each containing a water closet and a lavatory, shall be provided within one of the *buildings* on the property.

### 3.10.3. Additional Requirements for Buildings Containing more than 1 Storey

#### 3.10.3.1. Application

(1) The requirements in this Subsection apply to all *buildings* except a 1 *storey building* which does not contain a *basement* or *mezzanine*.

#### 3.10.3.2. Spatial Separations

(1) Except as provided in Sentence (2), the requirements in Subsection 3.2.3. shall apply.

(2) The distance between *buildings* shall be not less than 9 m.

#### 3.10.3.3. Fire Alarm Systems

(1) Except as provided in Sentences (2) and (3), the requirements in Subsection 3.2.4. shall apply.

(2) A fire alarm system shall be installed.

(3) Within the *first storey*, manual pull stations are required only in corridors.

#### 3.10.3.4. Provisions for Fire-fighting

(1) Except as provided in Sentences (2) to (4), the requirements in Subsection 3.2.5. shall apply.

(2) Access routes for fire department vehicles shall be provided and shall be not less than 9 m wide.

(3) Hydrants shall be located in the access routes required in Sentence (2) so that

- (a) for a *building* provided with a fire department connection for a standpipe system or a sprinkler system

- (i) a fire department pumper vehicle can be located adjacent to a hydrant, and

- (ii) the unobstructed path of travel for the firefighter from the vehicle to the fire department connection is not more than 45 m, and

- (b) for a *building* which is not *sprinklered*, a fire department pumper vehicle can be located in the access route so that the unobstructed path of travel for the firefighter is not more than

- (i) 45 m from the hydrant to the vehicle, and
- (ii) 45 m from the vehicle to every opening in the *building*.

### 3.10.3.5. Standpipe Systems

(1) Except as provided in Sentence (2), the requirements in Subsection 3.2.9. shall apply.

(2) Hose stations are not required in the *first storey*.

### 3.10.4. Additional Requirements for 1 Storey Buildings

#### 3.10.4.1. Application

(1) The requirements in this Subsection apply to 1 *storey buildings* which do not contain a *basement* or *mezzanine*.

#### 3.10.4.2. Building Area

- (1) For the purposes of Subsection 3.2.2., *building area* means
  - (a) the *building area* of each *building*,
  - (b) the total of the *building areas* of all *buildings* as a group, or
  - (c) the total of the *building areas* of any number or group of *buildings*.

#### 3.10.4.3. Spatial Separations

(1) Except as provided in Sentences (2) to (4), the requirements in Subsection 3.2.3. shall apply.

(2) Where the *building area* conforms to Clause 3.10.4.2.(1)(b), the *limiting distance* requirements shall not apply between individual *buildings*.

- (3) Where the *building area* conforms to Clause 3.10.4.2.(1)(c)
  - (a) the *limiting distance* requirements shall apply between each group of *buildings*, but not between individual *buildings* within a group, and
  - (b) the distance between each group of *buildings* shall be not less than 9 m.

(4) The distance between individual *buildings* within a group shall be not less than 6 m.

#### 3.10.4.4. Fire Alarm Systems

(1) Except as provided in Sentence (2), the requirements in Subsection 3.2.4. shall not apply.

(2) The requirements for *smoke alarms* in Article 3.2.4.21. shall apply to a *dwelling unit*.

#### 3.10.4.5. Provisions for Fire-fighting

(1) Except as provided in Sentences (2) to (7), the requirements in Subsection 3.2.5. shall not apply.

(2) Access routes for fire department vehicles shall be provided and shall be not less than 9 m wide.

(3) Hydrants shall be located in the access routes required in Sentence (2) so that the locations conform to Sentence 3.10.3.4.(3).

(4) The access routes required in Sentence (2) shall conform to the requirements in Sentence 3.2.5.6.(1).

(5) An adequate water supply for fire-fighting shall be provided for every *building*.

(6) Where a sprinkler system is installed, the system shall conform to the requirements in Articles 3.2.5.13., 3.2.5.16. and 3.2.5.18.

(7) Where *combustible* sprinkler piping is installed, it shall conform to the requirements in Article 3.2.5.14.

### Section 3.11. Public Pools

#### 3.11.1. General

##### 3.11.1.1. Application

(1) This Regulation applies to every *public pool*.

(2) This Section applies to the design and construction of site assembled and manufactured pools that are intended for use as *public pools*.

(3) Where material alterations to a *public pool* or the equipment installed in a *public pool* affect the bottom slope, the water volume or the capacity of the *recirculation system*, the adversely affected portions shall comply with the requirements of this Code.

(4) Where material alterations or repairs concern any pool fitting passing water and/or air in or out of the pool tank, the affected fitting shall comply with Sentences 3.11.8.1.(14) to (20).

#### 3.11.2. Designations of Public Pools

##### 3.11.2.1. Pool Designations

(1) Every *public pool* shall be designated as being either a Class A pool or a Class B pool in accordance with Sentence (2) or (3).

(2) A Class A pool is a *public pool* to which the general public is admitted or that is

- (a) operated in conjunction with or as a part of a program of an educational, instructional, physical fitness or athletic institution or association, supported in whole or in part by public funds or public subscription, or

- (b) operated on the premises of a *recreational camp*, for use by campers and their visitors and camp personnel.

(3) A Class B pool is a *public pool* that is

- (a) operated in conjunction with six or more *dwelling units, suites*, single family residences, or any combination thereof for the use of occupants or residents and their visitors,

- (b) operated in conjunction with a mobile home park for the use of residents or occupants and their visitors,

- (c) operated on the premises of a *hotel* for the use of its guests and their visitors,

- (d) operated on the premises of a *campground* for the use of its tenants and their visitors,

- (e) operated in conjunction with a club for the use of its members and their visitors, or

- (f) operated in conjunction with an establishment or institution classified in Table 3.1.2.1. as,



- (i) Group B, Division 1, *major occupancy*, or
- (ii) Group B, Division 2 or 3, *major occupancy*, for the use of residents or occupants and their visitors.

### 3.11.3. Pool and Pool Deck Design and Construction Requirements for all Class A and Class B Pools

#### 3.11.3.1. Construction Requirements

(1) Except as otherwise required in Subsections 3.11.4., 3.11.5., 3.11.6., and 3.11.7. or otherwise exempted in Sentences (2) and (3), Class A pools and Class B pools shall be designed and constructed to comply with Sentences (2) to (25).

(2) Where a Class B pool is constructed for use solely in conjunction with a club, child care facility, *day camp* or establishment or institution for the care of persons who are infirm, aged or in custodial care, the pool shall be exempt from the requirements of Clause (9)(a) and Sentences (13) and (14).

(3) Where a Class B pool is constructed for use solely in conjunction with an establishment or institution for the treatment of persons who are disabled or ill, the pool shall be exempt from the requirements of Sentences (6) and (7), Clause (9)(a) and Sentences (13) and (14).

(4) A *public pool* shall be constructed to have a water depth of not less than 750 mm except for

- (a) a *modified pool*,
- (b) a *wave action pool*,
- (c) a pool for therapeutic use,
- (d) a beach entry ramp, and
- (e) a pool described in Sentence 3.11.5.1.(1).

(5) The beach entry ramp permitted in Clause 4(d) shall be protected with permanent barriers between 900 mm to 1 200 mm along the pool deck to prevent entry into the pool until the minimum water pool depth is 750 mm.

(6) Except for a *modified pool*, a *wave action pool* and a pool used exclusively for scuba diving, the slope of the bottom of any portion of a *public pool* shall not exceed

- (a) 8% where the water depth is 1 350 mm or less,
- (b) 33% where the water depth is more than 1 350 mm and less than 2 000 mm, and
- (c) 50% where the water depth is 2 000 mm or more.

(7) Except for a *modified pool* and *wave action pool*, where the slope of any portion of the bottom of a *public pool* is more than 8%, the walls of the pool shall be equipped with recessed fittings to which a safety line supported by buoys can be attached across the surface of the water and the recessed fittings shall be installed at a horizontal distance of at least 300 mm measured from the vertical projection of the top of the slope in the direction of the shallow end of the pool.

(8) Except for a *modified pool*, *wave action pool* and a pool described in Sentence 3.11.5.1.(1), the side and end walls of a *public pool* shall be vertical from the top of the walls to within 150 mm of the bottom except at steps or recessed ladders or in water depths of 1 350 mm or more.

(9) Except for a *modified pool* and *wave action pool* and except as provided in Sentence (11), a *public pool* shall be surrounded by a hard-surfaced *pool deck* that shall

- (a) except for a pool described in Sentence 3.11.5.1.(1), be not less than 1 800 mm wide and provide at least 900 mm width of clear passage,
  - (i) behind any *diving board* and its supporting structure, and
  - (ii) between any column piercing the deck and the edge of the pool or between the column and outer perimeter of the *pool deck*,
- (b) in the case of an *outdoor pool*, be sloped away from the pool to waste drains or to adjacent lower ground at a slope of between 2% and 4%, and
- (c) in the case of an indoor pool, be impervious and sloped away from the pool to waste drains at a slope of between 1% and 4%.

(10) Where a *public pool* is constructed with a ledge, the ledge shall

- (a) be placed only in parts of the pool where the water depth is 1 350 mm or more,
- (b) be not more than 200 mm wide,
- (c) be at least 1 000 mm below the water surface,
- (d) where located on the side of the pool, be gradually tapered towards the shallow end of the pool in such a manner as to prevent a harmful obstruction, and
- (e) have a band of contrasting colour along the entire juncture of the side and top of the ledge.

(11) Notwithstanding Sentences (12) to (16), where a *public pool* is constructed on any level surface with walls rising above that surface and has a constant water depth not exceeding 1 100 mm and a water surface area not exceeding 100 m<sup>2</sup>, the *pool deck* may be an elevated platform surrounding the pool if it has

- (a) an unobstructed width of not less than 900 mm,
- (b) a height of at least 75 mm above grade or pavement elevation,
- (c) 6 mm wide openings for drainage, and
- (d) a non-slip surface that is capable of being kept clean and disinfected.

(12) Except for a *modified pool* and *wave action pool*, where a *pool deck* projects over the water surface, the projection shall not exceed 50 mm.

(13) Except for a *modified pool* and *wave action pool*, the *pool deck* shall be separated from any adjacent spectator area or gallery and from any spectator access to such area or gallery by a gate or other barrier.

(14) Except for a *modified pool* and *wave action pool*, the perimeter of the *pool deck* shall be clearly delineated by painted lines or other means where any area contiguous to the *pool deck* may be confused with the deck.

(15) Perimeter drainage shall be provided where necessary to prevent surface run-off from draining onto the *pool deck*.

(16) Except for a *modified pool*, one or more hose bibs shall be installed near the perimeter of the *pool deck* in locations convenient for flushing the *pool deck*.

(17) Except for a *modified pool* and *wave action pool*, where access to the pool enclosure is over any surface that is not subject to regular cleaning and sanitizing, a foot spray to wash feet by means of a spray running freely to waste shall be provided at each such access.

(18) Except for a *modified pool* and *wave action pool*, at least one ladder or set of steps shall be provided in both the deep and shallow areas of a *public pool* for entry into and egress from the pool water.

(19) The *pool deck*, the submerged parts of a *public pool*, the walls or partitions adjacent to a *pool deck* and the pavement or floor adjacent to a *pool deck* shall have surfaces that permit thorough cleaning.

(20) Except for markings for safety or competition purposes, submerged surfaces in *public pools* shall be finished white or light in colour.

(21) Except in a *modified pool*, a black disc 150 mm in diameter on a white background shall be affixed to the bottom of a *public pool* within the area of its greatest depth.

(22) A *public pool* shall be equipped with lockable doors or other barriers capable of preventing public access to the *pool deck*.

(23) Except for a *modified pool*, *wave action pool* or a pool installed at a *recreational camp*, a Class A pool shall be provided with

(a) where the water surface area is greater than 150 m<sup>2</sup> but not greater than 230 m<sup>2</sup>, at least one lifeguard control station, and

(b) where the water surface area is greater than 230 m<sup>2</sup>, at least two lifeguard control stations.

(24) Except for a *modified pool*, every *public pool* shall display on the deck clearly marked figures, not less than 100 mm high, that set out

(a) the water depths indicating the deep points, the breaks between gentle and steep bottom slopes and the shallow points,

(b) the words **SHALLOW AREA** at one or more appropriate locations, and

(c) where the water depth exceeds 2 500 mm, the words **DEEP AREA** at one or more appropriate locations.

(25) Except for a *modified pool* and a pool to which Sentence 3.11.5.1.(4) applies, every *public pool* having a maximum water depth of 2 500 mm or less shall display a warning notice posted in a location clearly visible to divers on which is printed in letters at least 150 mm high, the words **CAUTION -- AVOID DEEP DIVES** or **SHALLOW WATER -- NO DIVING**.

### 3.11.4. Public Pools Equipped with Diving Boards or Diving Platforms

#### 3.11.4.1. Diving Boards or Platforms

(1) No *diving board* or *diving platform* shall be installed in a *public pool* unless the requirements of Sentences (5) to (17) are met but the requirements for a *diving platform* do not apply to a *starting platform*.

(2) No *diving board* or *diving platform* shall be installed in a *modified pool* or a *wave action pool*.

(3) Where a *public pool* is equipped with a *diving board* or a *diving platform*, the board or platform shall have a non-slip surface.

(4) Where a *diving board* or a *diving platform* in a *public pool* is more than 600 mm above the water surface, the board or platform shall be equipped with one or more adjacent handrails.

(5) Where a *public pool* is equipped with a *diving board* or a *diving platform* not more than 3 m in height above the water surface, the pool shall be designed and constructed in conformance with Sentences (6) to (15).

(6) The depth of water in the area directly below a horizontal semi-circle in front of a *diving board* or *diving platform* having a radius of 3 m measured from any point on the front end of the board or platform shall not be less than

(a) 2 750 mm, where a board is 600 mm or less in height above the water surface,

(b) 3 m, where a board or platform is greater than 600 mm but not more than 1 000 mm in height above the water surface, and

(c) 3.65 m, where a board or platform is greater than 1 000 mm but not more than 3 m in height above the water surface.

(7) Except as permitted in Sentence (8), the water depth in a *public pool* shall be at least 1 350 mm at the horizontal arc having a radius of 9 m measured from any point on the front end of the *diving board* or *diving platform* and intersecting the vertical projections of the walls of the pool.

(8) Where a Class B pool is equipped with a *diving board* 600 mm or less in height above the water

(a) the water depth shall be at least 1 350 mm at the horizontal arc having a radius of 7.5 m measured from any point on the front end of the *diving board*, and

(b) a warning notice, on which is printed in letters at least 150 mm high, the words **DANGER -- AVOID DEEP OR LONG DIVES**, shall be posted in a location clearly visible to divers.

(9) The slope of the bottom of a *public pool* having a *diving board* or *diving platform* shall not change by more than 17% where the water depth is less than the applicable depth set out in Sentence (6) and greater than the depth set out in Sentence (7) or (8), as applicable.

(10) The horizontal distance between the vertical projection of the centre line of a *diving board* or *diving platform* and the vertical projection of the centre line of another board or platform shall be at least 2 750 mm.

(11) The horizontal distance between the centre line of a *diving board* or *diving platform* and the vertical projection of the closest side or any ledge on the closest side of a *public pool* shall be at least

(a) 3 m, where a *diving board* or *diving platform* is 1 000 mm or less in height above the water surface, and

(b) 3.6 m, where a *diving board* or *diving platform* is greater than 1 000 mm in height above the water surface.

(12) A *diving board* or a *diving platform* 600 mm or less in height above the water surface shall project over the water a horizontal distance of at least 900 mm from the vertical projection of a pool wall under it.

(13) A *diving board* greater than 600 mm in height above the water surface shall project over the water a horizontal distance of at least 1 500 mm from the vertical projection of the pool wall under it.

(14) A *diving platform* greater than 600 mm in height above the water surface shall project a horizontal distance of at least 1 200 mm from the vertical projection of the pool wall under it.

(15) The space above a *diving board* or *diving platform* shall be unobstructed and shall consist of at least



- (a) a space having a width of 2 500 mm on each side of the centre line of the board or platform, a length equal to the sum of the horizontal distance the board or platform projects over the water plus 3 m, and a height of

- (i) 3.65 m above a *diving board* 3.65 m or less in length,

- (ii) 5 m above a *diving board* greater than 3.65 m in length, or

- (iii) 3 m above a *diving platform*, and

- (b) the space below the planes originating from the front and sides of the uppermost horizontal plane of the space determined under Clause (a) and sloping downwards at 30° from the horizontal.

(16) A *diving board* or *diving platform* greater in height than 3 m above the water surface shall be equipped with a gate, barrier or other device capable of preventing access thereto.

(17) Where a *public pool* is to be equipped with *diving boards* or *diving platforms* greater than 3 m in height above the water surface, the design of the *diving boards* or *diving platforms* and the corresponding water depths and clearances shall be in accordance with the "Rules and Laws Governing Swimming, Diving, Water Polo and Synchronized Swimming" published in 1984 by FINA.

### 3.11.5. Ramps into Public Pools in Group B, Division 2 or 3, Major Occupancies

#### 3.11.5.1. Ramps into Pools

(1) Notwithstanding Sentences 3.11.3.1.(4) and (7) and Clause 3.11.3.1.(9)(a), where a *public pool* is constructed in a *building* containing a Group B, Division 2 or 3, *major occupancy*, and has a water depth not exceeding 1 500 mm and a water surface area not exceeding 100 m<sup>2</sup>, the *pool deck* contiguous to not more than 50 per cent of the total perimeter of the pool may be replaced by one or more ramps that will permit a bather seated in a wheelchair to enter the water with or without the wheelchair.

(2) Where a *public pool* has one or more ramps as described in Sentence (1), the pool shall be designed and constructed to comply with Sentences (3) to (8).

(3) A ramp referred to in Sentence (1) shall have

- (a) a handrail having a height between 800 mm and 900 mm along each side of the ramp and running parallel to the slope of the ramp,

- (b) a width of at least 1 100 mm,

- (c) a curb or other means to prevent a wheelchair from falling off the side of the ramp,

- (d) surface finishes capable of being kept clean, sanitary and free from slipperiness, and

- (e) a landing at the bottom at least 1 500 mm in length and the same width as the ramp.

(4) Notwithstanding Sentence 3.11.3.1.(25), a warning notice, on which is printed in letters at least 150 mm high, the words **CAUTION -- NO DIVING**, shall be posted conspicuously on each wall or fence line enclosing the pool.

(5) There shall be a curb along the perimeter of the pool except at steps, ladders and ramp entrances.

(6) The curb shall have

- (a) a height of 50 mm,

- (b) rounded edges,

- (c) a coved base, and

- (d) a raised nosing at the top to serve as a fingerhold for a bather in the water.

(7) Where a ramp that is not submerged is adjacent to the pool wall and is used for access to the water, the pool shall be constructed so that

- (a) the landing at the bottom of the ramp is at least 450 mm but not more than 550 mm below the top of the wall separating the ramp from the pool,

- (b) the landing is equipped with a floor drain at its lowest point,

- (c) the top of the wall between the pool and the ramp is at least 250 mm and not more than 300 mm in width,

- (d) the *pool deck* is capable of accommodating a movable barrier separating the deck from the ramp,

- (e) the water depth at the landing shall be accurately and clearly marked at the landing in figures at least 100 mm high on the top of the wall separating the pool from the ramp, and

- (f) the ramp shall have a slope not exceeding 8%.

(8) Where a submerged ramp is adjacent to the pool wall and is used for access to the water, the pool shall be constructed so that

- (a) the water depth at the bottom of the ramp is at least 600 mm and not greater than 900 mm,

- (b) a hard-surfaced area that is at least 750 mm wide is contiguous to the entire length of the part of the submerged ramp that pierces any part of the deck,

- (c) the area described in Clause (b) is capable of accommodating a movable barrier that separates the area from the deck,

- (d) the finishes in submerged portions of the ramps and curbs are different in colour or shade from each other and from that of the pool walls and bottom, and

- (e) the submerged ramp has a slope not exceeding 11%.

### 3.11.6. Modified Pools

#### 3.11.6.1. Construction Requirements

(1) A *modified pool* is exempt from Sentences (4) to (9), (12), (13), (14), (16), (17), (18), (21), (23), (24) and (25) of Article 3.11.3.1. and Sentence 3.11.8.1.(12).

(2) A *modified pool* shall be designed and constructed to comply with Sentences (3) to (9).

(3) A *modified pool* and its *pool deck* shall be constructed of hard-surfaced material that permits thorough cleaning.

(4) The slope of the bottom of any portion of a *modified pool* shall not exceed 8%.

(5) The depth of the water in any portion of a *modified pool* shall not be more than 1 800 mm.

(6) A *modified pool* shall be surrounded on all sides by a hard-surfaced *pool deck* that shall



- (a) be at least 3 m wide,
- (b) have a continuous crest surrounding the pool at least 100 mm above the pool water surface, and
- (c) be sloped to shed water from the crest to the outer perimeter of the *pool deck*.

(7) A *modified pool* shall be provided with two or more drain fittings covered with protective grilles with openings having an aggregate area of at least 10 times the internal cross-sectional area of the outlet pipe or pipes connected to the *recirculation system* that is capable of completely draining the pool.

(8) Provision shall be made for lifeguard control stations adjacent to the edge of the water at intervals of not more than 60 m.

(9) The bottom of a *modified pool* shall be marked with continuous black contour lines

- (a) 150 mm wide located where the water depth is 600 mm, and
- (b) 300 mm wide located where the water depth is 1 200 mm.

### 3.11.7. Wave Action Pools

#### 3.11.7.1. Construction Requirements

(1) A *wave action pool* is exempt from Sentences (4) to (9), (12) to (14), (17), (18) and (23) of Article 3.11.3.1. and Sentence 3.11.8.1.(12).

(2) A *wave action pool* shall be designed and constructed to comply with Sentences (3) to (11).

(3) The slope of the bottom of any portion of a *wave action pool*

- (a) shall not exceed 8% where the still water depth is less than 1 000 mm, and
- (b) shall not exceed 11% where the still water depth is 1 000 mm or more.

(4) The walls of a *wave action pool* shall be vertical from the water surface to within 150 mm of the bottom.

(5) There shall be a hard-surfaced *pool deck* at least 3 m wide immediately adjacent to the pool wall at the shallow end of the pool and at least 1 500 mm wide immediately adjacent to all walls of the pool.

(6) Provision shall be made for two or more lifeguard control stations on each side of the *pool deck* adjacent to which the still water depth exceeds 1 000 mm.

(7) Sets of steps or ladders recessed into pool side walls and having continuous vertical grab bars on each side thereof shall be located at intervals of not more than 7.5 m along portions of the pool where the still water depth exceeds 1 000 mm, except that no steps or ladders shall be located within 3 m of the corners at the deep end of the pool.

(8) Except at recessed steps or ladders, the *pool deck* along each side of a *wave action pool* adjacent to which the water depth is 2 300 mm or less shall be equipped with a barrier supported by posts or a wall that

- (a) is 1 000 mm in height,
- (b) is located 1 000 mm or less from the side of the pool, and

(c) has warning notices affixed thereto at intervals not exceeding 7.5 m signifying clearly that jumping and diving are prohibited along the sides of the pool.

(9) Skimming devices shall be designed and suitably located to remove surface film when no waves are induced in a *wave action pool*.

(10) A system capable of deactivating the wave-making equipment shall be installed with readily accessible push buttons located on the *pool deck* not more than 30 m apart, adjacent to each side and the deep end of the pool.

(11) A *wave action pool* shall be equipped with a first-aid room located within 50 m of the pool.

### 3.11.8. Recirculation for Public Pools

#### 3.11.8.1. Recirculation Systems

(1) Every *public pool* shall be equipped with a *recirculation system*.

(2) For the purposes of this Subsection, the water in a *public pool* and its *recirculation system* shall be deemed not to be *potable water*.

(3) The water in a *public pool* and its *recirculation system* shall be separated from the *potable water supply* and from the sewer or drainage system into which it drains by air gaps or other devices that prevent

- (a) the water in the pool or its *recirculation system* from flowing back into the *potable water supply*, and
- (b) the water in the sewer or drainage system from flowing back into the pool or its *recirculation system*.

(4) The *recirculation system* of a *public pool* shall be designed, constructed and equipped to comply with Sentences (5) to (20).

(5) The *recirculation system* of a *public pool* shall be capable of filtering, disinfecting and passing through the pool each day a volume of water of at least

- (a) in the case of a Class A pool, other than a *modified pool* or a *wave action pool*, six times the total water volume of the pool,
- (b) in the case of a Class B pool, other than a *wave action pool*, four times the total water volume of the pool,
- (c) in the case of a *modified pool*, three times the total water volume of the pool, and
- (d) in the case of a *wave action pool*, six times the total water volume of the pool.

(6) A *recirculation system* shall be equipped with a flow meter registering the rate of water flow.

(7) All pools shall be provided with automatic *make-up water* devices and provided with water meters to register the volume of all *make-up water* added to a *public pool* or its *recirculation system*.

(8) Equipment shall be installed to continuously disinfect the water in a *public pool* by means of

- (a) a chlorination or hypochlorination system provided with a chemical controller for regulating the dosage of chlorine and capable of providing not less than
  - (i) in the case of an *outdoor pool*, other than a *wave action pool*, 300 g of chlorine per day per 10 000 L of total pool capacity,
  - (ii) in the case of an *indoor pool*, other than a *wave action pool*, 200 g of chlorine per day per 10 000 L of total pool capacity,

- (iii) in the case of an outdoor *wave action pool*, 1 200 g of chlorine per day per 10 000 L of total pool capacity, and
  - (iv) in the case of an indoor *wave action pool*, 800 g of chlorine per day per 10 000 L of total pool capacity, or
  - (b) a bromination system capable of maintaining in the pool water a total bromine residual of 3 mg/L.
- (9) Gas chlorination equipment for a *public pool* shall contain a mechanism whereby the chlorine feed shall automatically terminate whenever the *recirculation system* ceases to supply *clean water* to the pool.
- (10) All exposed *potable* water piping and chlorine piping within a *public pool* water treatment *service room* shall be colour coded by means of
- (a) painting the entire outer surface of the piping, or
  - (b) coloured bands at least 25 mm in width that are spaced along the piping at intervals of not more than 1 200 mm.
- (11) The colour coding referred to in Sentence (10) shall be yellow for chlorine and green for *potable* water.
- (12) Except for a *modified pool* and *wave action pool*, a *public pool* shall be equipped with overflow gutters or surface skimmers connected to the *recirculation system* that are capable of removing surface film from the surface of the water and withdrawing each day and discharging to the waste drains up to 15 per cent of the total volume of pool water.
- (13) A *public pool* shall be equipped with *clean water* inlets arranged in conjunction with surface skimmers or overflow gutters to provide uniform distribution and circulation of *clean water*.
- (14) Except as permitted in Sentence (19), all fittings at or below the water surface that allow water and/or air to be passed to or from the *public pool* shall
- (a) have a maximum opening of 7 mm in one direction, and
  - (b) be securely held in place by corrosion resistance fastening that require a tool for removal and are galvanically compatible with the fittings and grilles or covers.
- (15) Except as provided in Sentence 3.11.6.1.(7) for a *modified pool*, all fittings below the water surface that provide suction or gravity flow in a *public pool* shall
- (a) be provided with a minimum of two suction or gravity outlets interconnected to a full size manifold, and
  - (b) be separated by a clear distance of not less than 1 200 mm.
- (16) Except as provided in Sentence 3.11.6.1.(7) for a *modified pool*, in all *public pools* shall be capable of being emptied through the pool drains in twelve hours or less.
- (17) Except as provided in Sentence 3.11.6.1.(7) for a *modified pool*, openings in suction or gravity fittings shall
- (a) be such that the flow of water does not exceed 0.45 m/s and the velocity is calculated assuming all possible sources of suction flow are present at one time, and
  - (b) be such that every suction fitting located within 1 000 mm of the water surface, except for skimmers and gutter fittings, contain openings with a minimum aggregate area of 0.2 m<sup>2</sup>.

(18) Except for skimmers and gutters, all submerged suction and gravity fittings shall be clearly and permanently marked with a 50 mm wide band in a contrasting colour.

(19) Fittings returning water and/or air to the pool tank that are located within 300 mm of the water surface are permitted to have openings with one dimension more than 7 mm but shall contain no openings more than 25 mm in diameter.

(20) Submerged skimmer equalizer fittings and vacuum fittings are not permitted in *public pools*.

### 3.11.9. Dressing Rooms, Locker Facilities, and Plumbing Facilities for all Public Pools

#### 3.11.9.1. Dressing Rooms and Sanitary Facilities

(1) Except as otherwise permitted in Sentences (2) and (3), every *public pool* shall be equipped with dressing rooms, locker rooms, shower heads, water closets, urinals, lavatories and drinking fountains which shall be designed, constructed and equipped to comply with Sentences (4) to (14).

(2) Where a Class A pool is installed on the premises of a *recreational camp*, dressing rooms, locker rooms, shower heads, water closets, urinals, lavatories and drinking fountains are not required if

- (a) dressing, water closet and shower facilities are conveniently available for bathers elsewhere on the premises, and
- (b) foot sprays are provided in accordance with Sentence 3.11.3.1.(17).

(3) Where a Class B pool is installed, dressing rooms, locker rooms, shower heads, lavatories, water closets, drinking fountains and urinals are not required if

- (a) dressing, water closet and shower facilities are conveniently available elsewhere on the premises for bathers when the pool is open for use, and
- (b) foot sprays are provided in accordance with Sentence 3.11.3.1.(17).

(4) The minimum number of water closets, urinals and lavatories shall be determined from Article 3.7.4.3. and Table 3.7.4.3.C. for an *occupant load* based on

- (a) the formula in Sentence 3.1.16.3.(1) for all *public pools*, except a *wave action pool*, or
- (b) the formula in Sentence 3.1.16.3.(2) for a *wave action pool*.

(5) A minimum of one shower head shall be provided for every 40 bathers.

(6) Where dressing and locker rooms, water closets and urinals are provided in conjunction with a *public pool*, they shall be located in such a manner that bathers, after using them, shall pass through or by a shower area to reach the *pool deck*.

(7) All shower heads shall be supplied with *potable* water at a pressure of at least 140 kPa.

(8) The shower water system shall have one or more tempering devices capable of being adjusted to ensure that water supplied to shower heads does not exceed 40°C.

(9) Floors in washrooms, shower areas and passageways used by bathers shall slope to waste drains at not less than 1% and shall be of hard surfaced materials that do not become slippery when wet.



(10) Joints between floors and walls shall be coved in areas described in Sentence (9) and in dressing and locker rooms.

(11) Hose bibs shall be provided in safe locations convenient for flushing down the walls and floors in washrooms, shower areas and passageways used by bathers.

(12) *Partitions* or walls shall be provided to ensure privacy of dressing rooms, washrooms and shower areas.

(13) The bottom of interior *partitions* in dressing rooms and washrooms shall be between 250 mm and 350 mm above the floor.

(14) Dressing and locker room floors shall have non-slip surfaces that permit convenient and thorough cleaning and disinfecting.

### 3.11.10. Emergency Provisions for All Public Pools

#### 3.11.10.1. Lighting and Emergency Provisions

(1) Except as provided in Sentences (2) and (3), rooms and spaces used by the public in conjunction with a *public pool* shall be capable of illumination to levels in compliance with Subsection 3.2.7.

(2) Dressing rooms, locker rooms, shower rooms, washrooms and passageways shall have an illumination level of at least 200 lx at floor level.

(3) An *indoor pool* or an *outdoor pool* that is intended to be open for use after sundown shall be equipped with a lighting system

(a) that will maintain at any point on the *pool deck* and on the pool water surface an illumination level of at least,

(i) 200 lx in the case of an *indoor pool*, and

(ii) 100 lx in the case of an *outdoor pool*, and

(b) that makes the underwater areas of the pool clearly visible from any point on the *pool deck*.

(4) An *outdoor pool* that is intended to be open for use after sundown and an *indoor pool* shall be equipped with an independent emergency lighting system that automatically operates whenever the normal electrical power supply to a *public pool* lighting system fails.

(5) The independent emergency lighting system required in Sentence (4) shall be capable of illuminating the *pool deck*, washroom, shower, locker areas, pool water surface and all means of egress to a level of at least 10 lx.

(6) An emergency power supply for the emergency lighting system required in Sentence (4) shall comply with Sentences 3.2.7.4.(1) and 3.2.7.7.(1) and Article 3.2.7.5.

(7) An emergency telephone directly connected to an emergency service or to the local telephone utility shall be installed adjacent to the *pool deck* of every Class A pool.

(8) A telephone accessible for emergency use shall be installed for every Class B pool within 30 m of the pool.

(9) Every *wave action pool* shall have a public address system which shall be clearly audible in all portions of the pool.

(10) Every *wave action pool* shall have a communication system for the use of persons engaged in supervision or operation of the pool which shall be interconnected with each lifeguard control station, the first-aid room and the bather admission control centre.

(11) The public address system and the communication system described in Sentences (9) and (10) shall be interconnected.

(12) All recirculating pumps used in a *public pool* shall be capable of being deactivated by an emergency stop button clearly labelled and located at

(a) a Class A pool beside the telephone that is required in Sentence (7), and

(b) a Class B pool on the deck area.

(13) The emergency stop button in Sentence (12) shall when used activate an audible and a visual signal located by the emergency stop.

(14) An emergency sign containing the words **IN THE EVENT OF AN EMERGENCY PUSH EMERGENCY STOP BUTTON AND USE EMERGENCY PHONE, AUDIBLE AND VISUAL SIGNAL WILL ACTIVATE** shall be in letters at least 25 mm high with a 5 mm stroke and posted above the emergency stop button.

### 3.11.11. Service Rooms and Storage for all Public Pools

#### 3.11.11.1. Service Rooms and Storage Facilities

(1) In addition to the requirements of this Subsection, *service rooms* shall comply with the requirements of Sentences 3.6.2.1.(4), 3.6.2.1.(5) and 3.6.2.2.(5) and Articles 3.5.3.3. and 3.6.2.3.

(2) Where compressed chlorine gas is used as a pool water disinfectant, the cylinders or containers of gas shall be located in a *service room* that

(a) except as provided in Sentences 3.1.9.4.(3) to (8), is separated from the remainder of the *building* by a 1 h *fire separation* that is substantially gas tight,

(b) is designed for the sole purpose of containing all installed pressurized chlorine gas apparatus and piping and storing all chlorine gas containers or chlorine gas cylinders that are individually secured against toppling,

(c) is located at or above ground level,

(d) is provided with an *exit* door opening to the outdoors,

(e) has screened openings to the outdoors with at least one opening located within 150 mm from the floor and at least one opening located within 150 mm from the ceiling, each opening being 2% of the area of the floor,

(f) is equipped with emergency mechanical ventilation capable of producing at least 30 air changes per hour, taking suction at a maximum of 900 mm above the floor level and discharging at least 2 500 mm above ground level directly to the outdoors, and

(g) contains a platform weigh scale of at least 135 kg capacity for each chlorine cylinder in use.

(3) Storage facilities shall be provided for the safe storage of all chemicals required in pool operations.

(4) The storage facilities shall be ventilated and shall be equipped with a water hose connection and a floor drain.

(5) *Service rooms* and storage facilities, including rooms and facilities that contain electrical or mechanical equipment or chemicals or chemical feeders, shall be equipped with a secure locking device.

### Section 3.12. Rapid Transit Stations

#### 3.12.1. Scope and Definitions

##### 3.12.1.1. Scope

(1) Except as provided in this Section the requirements in the Code apply to *rapid transit stations*.



**3.12.1.2. Definitions****(1) In this Section**

*Ancillary space* means the rooms or spaces in the station used only by the transit agency to house or contain operating, maintenance or support equipment and functions, but does not include booths and kiosks used by the transit agency or *service rooms*.

*Central supervising station* means the operations centre where the transit agency controls and co-ordinates the system-wide movement of passengers and vehicles and from which communication is maintained with supervisory and operating personnel of the transit agency and with participating agencies when required.

*Crush load* means the total of the seating capacity and the standing capacity of a car where

- a) the seating capacity is the number of seats in a car, and
- b) the standing capacity is 0.2 m<sup>2</sup> per person for the standing area which is measured 300 mm in front of the seats.

*Egress capacity* means the number of people able to travel from or through a type of egress facility in a specified period of time.

*Entraining load* means the number of passengers boarding the train at a station.

*Fare-paid area* means that portion of a *rapid transit station* to which access is gained by a pass or by paying a fare.

*Fare-paid area control* means the point where passengers enter or leave the *fare-paid area*.

*Link load* means the number of passengers on board the train(s) travelling between two stations.

*Maximum calculated train load* means the *crush load* per car multiplied by the maximum number of cars per train in the peak period.

*Peak direction* means, for each route, the direction of train travel having the largest passenger flow volume based on the sum of the incoming *link load* plus the *entraining load* per peak hour.

*Protected route* means that portion of a *means of egress* which starts at the point where passengers would not be vulnerable to exposure from a train fire and which leads to the exterior of the station or through an *exit* to an adjacent *building*.

*Public area* means the public circulation areas in a *rapid transit station* providing pedestrian access to and from trains.

*Rapid transit station* means a *building* or part of a *building* used for the purpose of loading and unloading passengers of a *rapid transit system* but does not include open air shelters at street level.

*Rapid transit system* means an electrified transportation system, utilizing guidance methods involving positive mechanical contact with the fixed way operating on a right-of-way for the mass movement of passengers.

**3.12.2. Construction Requirements****3.12.2.1. Requirements for Stations**

(1) Except as provided in this Subsection, the requirements in Subsections 3.2.1. and 3.2.2. do not apply to a *rapid transit station*.

(2) The requirements in Sentence (3) shall apply to

- (a) a *rapid transit station* erected entirely below the adjoining finished ground level, and
- (b) the underground portion of a *rapid transit station*.

(3) Except as permitted in Sentence (4), an underground station or an underground portion of a station in Sentence (2) shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* having a *fire-resistance* rating not less than 2 h,
- (b) roof assemblies below ground level
  - (i) shall have a *fire-resistance* rating not less than 2 h, or
  - (ii) a *fire-resistance* rating is not required where steel tunnel liners are left in place to form part of the assembly and the tunnel liners are in direct contact with *soil*, and
- (c) all *loadbearing* walls, columns and arches shall have a *fire-resistance* rating not less than that required for the supported assembly.

(4) An interior stair extending to street level is permitted to be protected by a *combustible* roof.

(5) Where a *rapid transit station* is erected above and below the adjoining finished ground level, the above ground portion of the station shall be of *noncombustible construction* and shall conform to the requirements in Sentence (10).

(6) Where a *rapid transit station* is erected entirely above the adjoining finished ground level and is a stand-alone *building*, the station shall be of *noncombustible construction* and shall conform to the requirements in Sentence (11).

(7) Openings for stairways and escalators used by passengers are permitted to penetrate the *fire separations* required in Sentences (2) to (6).

(8) Elevator shafts are permitted to penetrate the *fire separations* required in Sentences (2) to (6) provided they are enclosed by

- (a) a *fire separation* having a *fire-resistance* rating not less than 1 h, or
- (b) wired glass assemblies conforming to the Supplementary Guidelines.

(9) Openings for other than stairways, escalators or elevators are permitted to penetrate the *fire separations* required in Sentences (2) to (6) provided the openings are protected by a *closure* having a *fire-protection* rating not less than 45 min.

(10) The *building* shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance* rating not less than 2 h,
- (b) *mezzanines* shall have a *fire-resistance* rating not less than 1 h,
- (c) roof assemblies shall have a *fire-resistance* rating not less than 1 h, and
- (d) all *loadbearing* walls, columns and arches shall have a *fire-resistance* rating not less than that required for the supported assembly.

(11) Except as provided in Sentence (12), the *building* shall be of *noncombustible construction*, and

- (a) floor assemblies shall be *fire separations* with a *fire-resistance rating* not less than 1 h,
- (b) *mezzanines* shall have a *fire-resistance rating* not less than 1 h,
- (c) roof assemblies shall have a *fire-resistance rating* not less than 1 h, and
- (d) all *loadbearing walls*, columns and arches shall have a *fire-resistance rating* not less than that required for the supported assembly.

(12) A *building* classified as Group A, Division 2 *occupancy* that is not more than 1 storey in *building height*, and in which the *building area* is not more than 3 200 m<sup>2</sup> if not *sprinklered*, or 6 400 m<sup>2</sup> if *sprinklered*, is permitted to be constructed with a roof of *heavy timber construction* and have columns of *heavy timber construction*.

### 3.12.3. Safety Requirements Within Stations

#### 3.12.3.1. Application

(1) Except as provided in this Subsection and Subsection 3.12.4., the requirements in Subsections 3.3.1. and 3.6.2. apply to a *rapid transit station*.

(2) A door in a *fire separation* is permitted to be equipped with pivot hinges in conformance with Table 2-8A of NFPA 80, "Fire Doors and Windows".

(3) The requirements in Subsection 3.4.4. for fire separation of *exits* do not apply in a *rapid transit station*.

(4) Except as provided in Sentence (5), the requirements in Sentence 3.4.6.15.(1) for doors to be readily opened from the inside apply to required *exit doors* in a *rapid transit station*.

(5) Where a group of two or more doors serves as a single *exit facility*, only one door in the group is required to comply with Sentence 3.4.6.15.(1).

(6) A door which is required to be readily opened in Sentence (4) or (5) shall have a sign attached to it

- (a) displaying the words **EMERGENCY EXIT** with the letters not less than 25 mm high, and
- (b) visible from the *exit approach*.

#### 3.12.3.2. Booths and Kiosks

(1) Booths and kiosks that are not more than 20 m<sup>2</sup> in area and are used only by the transit agency for fare collection, dissemination of information or similar *non-mercantile occupancies* shall be of *noncombustible construction* and are not required to be separated from the remainder of the *floor area* by a *fire separation*.

(2) Booths and kiosks that are more than 20 m<sup>2</sup> in area and are used only by the transit agency for fare collection, dissemination of information or similar *non-mercantile occupancies* shall be

- (a) *sprinklered*, and
- (b) separated from the remainder of the *floor area* by a *fire separation of noncombustible construction* which is not required to have a *fire-resistance rating*.

(3) A door acting as a *closure* in the *fire separation* in Sentence (2) is not required to be equipped with a self-closing device.

#### 3.12.3.3. Service Rooms and Ancillary Spaces

(1) An *ancillary space* in a *rapid transit station* shall be separated from the remainder of the *floor area* by a *fire separation* having a *fire-resistance rating* not less than 1 h.

(2) Except as provided in Sentence (3), a door opening from a *service room* onto a *means of egress* in a *rapid transit station* shall be located not less than 5 m from an escalator balustrade and from the top and bottom riser of a flight of stairs used as a *means of egress* from the *rapid transit station*.

(3) The requirements in Sentence (2) do not apply where

- (a) the *service room* is *sprinklered*, or
- (b) there is a vestibule between the *service room* and the *means of egress*.

(4) Where a door from a *service room* opens onto a *means of egress* less than 5 m wide

- (a) the *service room* shall be *sprinklered*, or
- (b) there shall be a vestibule between the *service room* and the *means of egress*.

#### 3.12.3.4. Leased Areas

(1) All leased areas within a *rapid transit station* shall be

- (a) *sprinklered*, and
- (b) separated from the remainder of the *floor area* by a *fire separation of noncombustible construction* which is not required to have a *fire-resistance rating*.

(2) A door acting as a *closure* in the *fire separation* in Clause (1)(b) is not required to be equipped with a self-closing device.

(3) Where leased areas are located on opposite sides of a *means of egress*, the width of the *means of egress* shall not be reduced to less than 5 m.

(4) Except as provided in Sentence (5), where the leased area on any floor level exceeds 15% of the *public area* on that level, the *public area* shall be *sprinklered*.

(5) In a *rapid transit station* which is erected entirely above the adjoining finished ground level and is a stand-alone *building*, where the leased area on any floor level exceeds 20% of the *public area* on that level, the *public area* shall be *sprinklered*.

(6) In determining the leased area in Sentences (4) and (5), it is not necessary to include a leased area which is separated from the *public area* by a *fire separation* having a *fire-resistance rating* not less than

- (a) 2 h where the leased area contains a *mercantile* or *medium hazard industrial occupancy*, or

- (b) 1 h where the leased area contains any other *occupancy*.

(7) A leased area is permitted on a platform level provided it is

- (a) located not less than 5 m from the platform edge,
- (b) located not less than 5 m from an egress facility, and



- (c) not located in a dead end portion of the platform.

### 3.12.3.5. Vehicle Terminal

(1) Where an enclosed terminal serves vehicles powered by combustible fuels, and the terminal has direct access to a *rapid transit station*

- (a) the terminal shall be *sprinklered*, and
- (b) the terminal shall be separated from the *rapid transit station*
  - (i) by a *fire separation* having a *fire-resistance* rating not less than 1 h, or
  - (ii) by wired glass assemblies conforming to the Supplementary Guidelines with wired glass doors equipped with self-closing devices.

(2) Doors in the *fire separation* or in the wired glass assembly in Clause (1)(b) are not required to have latches where close spaced sprinkler protection is provided on the station side.

### 3.12.3.6. Access to Adjacent Building

(1) Where an access is provided between a *rapid transit station* and an adjacent *building*, the station and the *building* shall be separated by a *fire separation* having a *fire-resistance* rating not less than 2 h.

(2) The access in Sentence (1) shall be through a vestibule which is separated from the station and from the *building*

- (a) by a *fire separation* having a *fire-resistance* rating not less than 1 h, or
- (b) by wired glass assemblies conforming to the Supplementary Guidelines with wired glass doors equipped with self-closing devices.
- (3) The vestibule doors in Sentence (2) are not required to be equipped with latches.
- (4) Close spaced sprinkler protection shall be provided on each side of all vestibule doors.
- (5) The vestibule shall not contain an *occupancy*.

(6) Where an access is provided between a *rapid transit station* and an adjacent *building*, and the *building* is regulated by the provisions of Subsection 3.2.6. or 3.2.8., these provisions are not required in the *rapid transit station*.

### 3.12.3.7. Emergency Lighting

(1) Emergency lighting shall be provided to average levels not less than 10 lx at floor or tread level in *public areas* in a *rapid transit station*.

(2) An emergency power supply conforming to Subsection 3.2.7. shall be provided to maintain the emergency lighting required in Sentence (1) for a period of 30 min after a power failure.

### 3.12.4. Means of Egress

#### 3.12.4.1. Occupant Load

(1) The occupant load for *public areas* within a *rapid transit station* shall be

- (a) determined in conformance with this Subsection, and

- (b) based on peak hour patronage as projected for design of the transit system.

(2) The platform occupant load for each platform in a *rapid transit station* shall be the greater of the a.m. or p.m. peak period loads calculated in accordance with Sentences (3) to (5).

(3) The a.m. and the p.m. peak period occupant loads for each platform shall be based on the simultaneous evacuation of the *entraining load* and the *link load* for that platform.

(4) The *entraining load* for each platform shall be the sum of the *entraining loads* for each track serving that platform and the *entraining load* for each track shall be based on the *entraining load* per train headway multiplied by

- (a) a factor of 1.3 to account for surges, and
- (b) in the *peak direction* for each route, an additional factor of 2 to account for a missed headway.

(5) The *link load* for each platform shall be the sum of the *link loads* for each track serving that platform and, except as provided in Sentence (6), the *link load* for each track shall be based on the *link load* per train headway multiplied by

- (a) a factor of 1.3 to account for surges, and
- (b) in the *peak direction* for each route, an additional factor of 2 to account for a missed headway.

(6) The maximum *link load* at each track shall be the *maximum calculated train load*.

#### 3.12.4.2. General Requirements

(1) Except as provided in Sentence (2), escalators conforming to the requirements of Sentences 3.12.4.5.(3) and 3.12.4.6.(1) shall be acceptable as part of a required *means of egress* in a *rapid transit station*.

(2) Escalators forming part of a required *means of egress* shall not comprise more than one-half of the required *egress capacity* from any one level.

(3) *Horizontal exits* conforming to Sentence (4) may provide all of the required *egress capacity* from a *rapid transit station*.

(4) *Horizontal exits* to any one *building* shall not comprise more than one half of the required *egress capacity* from any area within a *rapid transit station*.

(5) A *protected route* shall be provided with emergency ventilation conforming to Subsection 3.12.7.

(6) In an aboveground unenclosed station, the *protected route* is permitted to begin at the point of leaving the platform.

(7) In an enclosed or underground station, the protection for the *protected route* shall consist of

- (a) a *fire separation* having a *fire-resistance* rating not less than 1 h,
- (b) construction having a *fire-resistance* rating not less than 1 h, or
- (c) wired glass assemblies conforming to the Supplementary Guidelines.



**3.12.4.3. Number and Location of Means of Egress**

(1) Each platform in a *rapid transit station* shall be served by not less than 2 *means of egress* which are independent of and remote from each other from the platform to the exterior of the station.

(2) Where a continuous level walking surface is provided between two adjacent platforms, they may be considered as one platform for the purpose of conforming to this Subsection.

(3) At the platform level, the distance separating the egress facilities in Sentences (1) and (2) shall be the greater of one car length or 25 m.

(4) Except as required in Sentence (1), two or more *means of egress* are permitted to converge in conformance with Sentence 3.12.4.4.(6).

(5) *Means of egress* from platforms shall be located so that the travel time from the most remote point on a platform to a *protected route* does not exceed 4 min based on travel speeds of

(a) 38 m/min for horizontal travel, and

(b) 21 m/min for vertical rise.

**3.12.4.4. Egress Capacity**

(1) For a *rapid transit station*, the required aggregate *egress capacity* from each platform shall be determined by dividing the platform occupant load determined in accordance with Sentences 3.12.4.1.(2) to (6) by the required platform clearance time determined in accordance with Sentence (3).

(2) Where 2 platforms are considered as 1 platform as provided in Sentence 3.12.4.3.(2), the required *egress capacity* for each platform shall be determined separately.

(3) The required platform clearance time shall be 4 min less the travel time between the platform and the entry into the *protected route* based on travel speeds of

(a) 38 m/min for horizontal travel, and

(b) 21 m/min for vertical rise.

(4) For each *means of egress*, the required *egress capacity* at the platform shall be maintained for the entire length of the *means of egress*.

(5) Except as provided in Sentence (6), where 2 or more *means of egress* converge, the required *egress capacity* beyond that point shall be cumulative.

(6) The *egress capacity* in Sentence (5) need not be cumulative after converging where it can be shown that the platform clearance time in Sentence (3) is not exceeded.

**3.12.4.5. Width of Means of Egress**

(1) Except as otherwise required in this Subsection, the required width of *means of egress* serving platforms in a *rapid transit station* shall be determined based on

(a) the required *egress capacity* determined in conformance with Article 3.12.4.4., and

(b) the pedestrian flow rate for the type of *means of egress* facility listed in Table 3.12.4.5.

**Table 3.12.4.5.****Pedestrian Flow Rates**

Forming Part of Sentence 3.12.4.5.(1)

Type of Egress Facility	Flow Rate, pedestrians per minute	Flow Rate, pedestrians per minute per metre width
Platforms	N/A	80
Corridors	N/A	80
Doorways	N/A	80
Gates	N/A	80
Ramps not more than 4%	N/A	80
Ramps more than 4 %	N/A	55 <sup>(1)</sup>
Stairs	N/A	55 <sup>(1)</sup>
Escalators moving in direction of egress travel, nominal width		
: 1 200 mm	100	N/A
: 800 mm	80	N/A
: 600 mm	60	N/A
Turnstiles, height of bar		
: not more than 900 mm	45	N/A
: more than 900 mm	25	N/A
Column 1	2	3

**Note to Table 3.12.4.5.:**

(1) Flow rate is applied vertically.

(2) In calculating the required width of corridors and ramps with a grade of less than 4%, 300 mm at each sidewall shall be added to the width determined based on required *egress capacity*.

(3) In calculating the required width of egress routes, one escalator at each level in a *rapid transit station* shall be deemed to be out of service and not available for egress purposes.

(4) Except as provided in Sentence (5), the minimum width of *means of egress* facilities serving platforms shall be

(a) 1 750 mm for corridors and ramps,

(b) 1 750 mm for stairs,

(c) 430 mm for turnstiles,

(d) 500 mm for fare collection gates,

(e) 600 mm nominal width for escalators, and

(f) 900 mm for a door leaf.

(5) A second *means of egress* as required by Sentence 3.12.4.3.(1) is permitted to be not less than 1 100 mm wide.

(6) The minimum width of platforms shall be

(a) 3.2 m for side platforms, and

(b) 6.4 m for island platforms.

(7) The minimum unobstructed width of platforms measured from the platform edge shall be 2.5 m.

**3.12.4.6. Egress Facilities**

(1) Escalators forming part of a required *means of egress* shall

(a) where equipped to run reverse to the direction of egress travel, be capable of being stopped remotely and locally, and

- (b) have a vertical rise not more than 12 m between floors or landings.

(2) Where electrically operated gates or turnstiles used for fare collection are intended to be used as part of a required *means of egress* from a *rapid transit station*, provision shall be made to release the gates or turnstiles in accordance with Sentence (4) to allow them to operate freely in the direction of egress travel.

(3) Where locked doors which prevent entry into a *fare-paid area* are to be used as part of a required *means of egress* from a *rapid transit station*, provision shall be made to release the doors in accordance with Sentence (4) to allow them to operate freely in the direction of egress travel.

(4) The release device required in Sentences (2) and (3) shall be installed as an ancillary device to the fire alarm system and shall release immediately

- (a) upon activation of the fire alarm signal,
- (b) in the event of a power failure or ground fault, or
- (c) upon actuation of a manually operated switch accessible to authorized personnel and located in
  - (i) a fare collector's booth or kiosk at the station, or
  - (ii) the *central supervising station*.

(5) After release, the gates or turnstiles in Sentence (2) or the doors in Sentence (3) shall be capable of reactivation only by manual actuation of the switch in Clause (4)(c).

### 3.12.5. Fire Safety Provisions

#### 3.12.5.1. Fire Alarm System

(1) Except as provided in this Subsection, a fire alarm system conforming to Subsection 3.2.4. shall be installed in a *rapid transit station*.

#### 3.12.5.2. Exceptions

- (1) Manual pull stations need not be installed in a *rapid transit station*.
- (2) Audible signal appliances need not be installed in a *rapid transit station*.

#### 3.12.5.3. Fire Detectors

(1) Except where the area is *sprinklered*, *fire detectors* shall be installed in every *service room*, *ancillary space*, leased space, booth and kiosk.

#### 3.12.5.4. Central Supervising Station

(1) Each *rapid transit station* shall be monitored by a *central supervising station* equipped in accordance with the provisions of Chapter 9 of NFPA-72, "Standard for the Installation, Maintenance and Use of Protective Signaling Systems".

#### 3.12.5.5. Annunciators

- (1) An annunciator shall be installed
  - (a) in a location that is readily accessible to firefighters entering the *building*, and

- (b) in the *rapid transit station*

- (i) in a designated collector's booth, or
- (ii) within viewing distance of a designated collector's booth.

#### 3.12.5.6. Annunciator Indication

(1) All fire alarm, *fire detectors*, valve switches and water flow indicator signals when activated in a *rapid transit station* shall be indicated on the annunciator at the station.

(2) The annunciator at a *rapid transit station* shall be monitored simultaneously at the *central supervising station*.

(3) Where a *means of egress* from a *rapid transit station* leads through an adjoining *building*, any *alarm signal* originating in the *building* within two *storeys* above a connection to the station shall

- (a) be indicated on the *rapid transit station* annunciator, and
- (b) cause a message to flash a warning on a sign located in conformance with Sentence (4), that the *means of egress* shall not be used as an *exit* from the station.
- (4) A sign required in Clause (3)(b) shall be located
  - (a) at the doors from the *rapid transit station* to the adjoining *building*, and
  - (b) in the *means of egress* to the adjoining *building*, at the last point where there is a choice of direction to travel to not less than one other *exit*.

#### 3.12.5.7. Emergency Power

(1) An emergency power supply conforming to Article 3.2.7.8. shall be provided for the fire alarm system.

#### 3.12.5.8. Communication Systems

(1) In a *rapid transit station*, a public address system shall be installed and shall include loudspeakers which

- (a) can be operated from the *central supervising station*,
- (b) can be operated from the *rapid transit station* in which they are located, and
- (c) designed and located so that voice messages can be heard intelligibly throughout the *public area* in a *rapid transit station*.

(2) A 2-way communication system shall be installed in each *rapid transit station* with telephones located at

- (a) the collector's booth, and
- (b) at each end of each platform.

(3) The telephones in Sentence (2) shall be provided with connections to the *central supervising station*.

#### 3.12.5.9. Emergency Reporting Devices

(1) Emergency reporting devices shall be located on passenger platforms and throughout a *rapid transit station* such that the distance of travel from any point in the *public area* to such a device is not more than 90 m.

(2) The emergency reporting devices required in Sentence (1) are permitted to be public telephones with an emergency no charge

capability and their location shall be plainly indicated by appropriate signs.

### 3.12.5.10. Sprinkler Systems

(1) Sprinkler systems shall conform with the requirements of Articles 3.2.5.13 to 3.2.5.16.

(2) In addition to the requirements of Subsection 3.12.3. the steel truss enclosure of an escalator shall be *sprinklered*.

(3) There shall be identification on a fire department connection for a sprinkler system in a *rapid transit station* to indicate that the connection is part of the station system.

### 3.12.5.11. Standpipe and Hose Systems

(1) A standpipe and hose system conforming to the requirements of Subsection 3.2.9. shall be installed in a *rapid transit station*, except as otherwise required or permitted in this Article.

(2) Where a *rapid transit station* includes more than one standpipe riser there shall be a cross-connection pipe having a diameter not less than 100 mm between each standpipe riser so that supplying of water through any fire department connection will furnish water throughout each riser.

(3) There shall be identification on a fire department connection for a standpipe system in a *rapid transit station* to indicate that the connection is part of the station system.

(4) Hose stations shall be located so that every portion of the *rapid transit station* can be reached by a hose stream and is within 3 m of a hose nozzle when the hose is extended.

(5) In addition to the requirements in Sentence (4), hose stations shall be located in each tunnel not more than 20 m from the end of the platform.

(6) The requirement for hose rack and fire hose in Sentence 3.2.9.3.(2) does not apply in a *rapid transit station*.

(7) Each hose station shall have a 38 mm hose connection and a 65 mm hose connection.

(8) All supply piping shall have a diameter not less than 100 mm.

### 3.12.6. Required Sanitary Facilities

#### 3.12.6.1. Application

(1) Except as provided in this Subsection, Subsection 3.7.4. applies to a *rapid transit station*.

#### 3.12.6.2. Washrooms Required

(1) Except as provided in Sentences (2) and (3), a washroom for each sex, containing not less than 1 water closet and 1 lavatory, shall be provided in each *rapid transit station* for use by employees.

(2) Where the number of employees in a *rapid transit station* is not more than 5, a washroom containing 1 water closet and 1 lavatory is permitted to be used by both sexes provided the door to the room can be locked from the inside.

(3) Where a *rapid transit station* is not staffed during operating hours, a washroom is not required in the station.

(4) In each *rapid transit station* located at the end of a line, a washroom for each sex, containing not less than 3 water closets and 2 lavatories, shall be provided for use by the public.

### 3.12.7. Emergency Ventilation

#### 3.12.7.1. Application

(1) Every *rapid transit station* shall be provided with an emergency ventilation system conforming to NFPA 130, "Fixed Guideway Transit Systems".

### 3.12.8. Barrier-Free Design

#### 3.12.8.1. Application

(1) Except as provided in this Subsection, the requirements in Section 3.8. apply to *rapid transit stations*.

(2) Not less than one *barrier-free* path of travel shall be provided from an entrance described in Article 3.8.1.2.

- (a) into the *fare-paid area*, and
- (b) to each platform.

#### 3.12.8.2. Exception

(1) Where an elevator is used to comply with the requirements of Article 3.3.1.7., the provisions of Clause 3.3.1.7.(1)(a) do not apply where the elevator system complies with Article 3.12.8.3.

#### 3.12.8.3. Elevator Requirements

(1) Except as provided in Sentence (2), the elevator in Article 3.12.8.2. shall be capable of providing transportation from each platform to an entrance described in Article 3.8.1.2.

(2) Where it is necessary to change elevators to reach the entrance described in Sentence (1), the elevator system shall be designed so that not more than one change of elevator is required between

- (a) a platform and a *fare-paid area control*, and
- (b) the *fare-paid area control* and the entrance.

#### 3.12.8.4. Emergency Operation of Elevators

(1) Manual emergency recall operation shall be provided for all elevators.

(2) Key-operated switches for emergency recall described in Sentence (1) shall be provided and shall be located on the outside of each elevator shaft at the level of the *fare-paid area control*.

(3) In-car emergency service switches shall be provided in all elevator cars.

(4) Keys to operate the switches required in Sentences (2) and (3) shall be located at

- (a) the annunciator required in Clause 3.12.5.5.(1)(a), and
- (b) the collector's booth designated in Clause 3.12.5.5.(1)(b).

#### 3.12.8.5. Washrooms Required to be Barrier-Free

(1) A *barrier-free* path of travel shall be provided to the washrooms required in Article 3.12.6.2.



(2) Where a washroom required in Sentence 3.12.6.2.(1) contains only 1 water closet and 1 lavatory, the washroom shall be designed in conformance with the requirements in Article 3.8.3.12.

(3) Where a washroom required in Sentence 3.12.6.2.(1) contains more than 1 water closet, the washroom shall be designed in conformance with the requirements in Articles 3.8.3.8. to 3.8.3.11.

(4) The washroom required in Sentence 3.12.6.2.(2) shall be designed in conformance with the requirements in Article 3.8.3.12.

(5) The washrooms required in Sentence 3.12.6.2.(4) shall be designed in conformance with the requirements in Articles 3.8.3.8. to 3.8.3.11.

### Section 3.13. Tents and Air-Supported Structures

#### 3.13.1. Tents

##### 3.13.1.1. Application

(1) Except as provided in this Subsection, tents are exempted from complying with the requirements of this Code.

##### 3.13.1.2. General

(1) Except as provided in Sentence (2), the requirements of this Subsection shall apply to all tents.

(2) Articles 3.13.1.4., 3.13.1.5., 3.13.1.6. and 3.13.1.10. apply to tents that

- (a) do not exceed 225 m<sup>2</sup> in ground area,
- (b) do not exceed 225 m<sup>2</sup> in aggregate ground area and are closer than 3 m apart,
- (c) do not contain bleachers, and
- (d) are not enclosed with sidewalls.

##### 3.13.1.3. Means of Egress

(1) Except as provided in Sentences (2) and (3), tents shall conform to Sections 3.3. and 3.4.

(2) A tent need not conform to Article 3.4.6.11. except where swing type doors are provided.

(3) Where the area between adjacent tents or a tent and the property line is used as a *means of egress*, the minimum width between stake lines shall be the width necessary for *means of egress*, but not less than 3 m.

##### 3.13.1.4. Clearance to Other Structures

(1) Tents shall not be erected closer than 3 m to the property line.

(2) Except as provided in Sentences (3), (4) and (5), tents shall not be erected closer than 3 m to other tents or structures on the same property.

(3) A *walkway* between a *building* and a tent occupied by the public is permitted provided

- (a) the tent is not closer than 3 m from the *building*, and
- (b) the *walkway* conforms to Article 3.1.3.18.

(4) Tents not occupied by the public need not be separated from one another, and are permitted to be erected less than 3 m from other structures on the same property, where such closer spacing does not create a hazard to the public.

(5) Tents located on fair grounds or similar open spaces, need not be separated from one another provided such closer spacing does not create a hazard to the public.

#### 3.13.1.5. Clearances to Flammable Material

(1) The ground enclosed by a tent and for not less than 3 m outside of such structure shall be cleared of all flammable or *combustible* material or vegetation that will carry fire.

#### 3.13.1.6. Flame Resistance

(1) Every tent, and tarpaulins, decorative materials, fabrics and films used in connection with tents, shall be certified to CAN/ULC S-109-M, "Standard for Flame Tests of Flame-Resistant Fabrics and Films", or NFPA 701 "Standard Method of Fire Tests for Flame-Resistant Textiles and Films".

#### 3.13.1.7. Design of Framing and Supports

(1) The supporting framing structure and anchorage system for tents shall be designed and reviewed by a *professional engineer*.

#### 3.13.1.8. Bleachers

(1) Where bleachers are provided in tents, they shall be designed in conformance with Articles 3.3.2.8., 3.3.2.10., 4.1.6.11., and 4.1.10.6.

#### 3.13.1.9. Sanitary Facilities

(1) Except as provided in Sentence (3), the minimum number of water closets for tents shall be determined in accordance with Table 3.7.4.3.E.

(2) Article 3.7.4.16. applies to sanitary facilities in Sentence (1).

(3) Sanitary privies, chemical closets or other means for the disposal of human waste may be provided in lieu of toilet fixtures.

#### 3.13.1.10. Provision for Fire-fighting

(1) Access shall be provided to all tents for the purpose of fire-fighting.

### 3.13.2. Air-Supported Structures

#### 3.13.2.1. Application

(1) Except as provided in this Subsection, the requirements of the Code apply to *air-supported structures*.

#### 3.13.2.2. General

(1) *Air-supported structures* shall not be used for Groups B, C, or Group F, Division 1 *major occupancies* or for classrooms.

(2) Except where no *fire separation* is required between *major occupancies*, *air-supported structures* shall contain not more than one *major occupancy*.

(3) Except as provided in Sentence (5), *air-supported structures* are exempt from complying with Articles 3.2.2.20. to 3.2.2.83., except for maximum *building* size.

(4) *Air-supported structures* may be designed with interior walls, *mezzanines*, or similar *construction*.

(5) Interior construction contained within *air-supported structures* must meet the construction requirements of Articles 3.2.2.20. to 3.2.2.83.

### 3.13.2.3. Spatial Separation

(1) Except as provided in Sentences (2), (3) and (4), *air-supported structures* shall not be erected closer than 3 m to other structures on the same property or to the property line.

(2) *Air-supported structures* not occupied by the public need not be separated from one another, and are permitted to be erected closer than 3 m from other structures on the same property where such closer spacing does not create a hazard to the *building* occupants or the public.

(3) Except as provided in Sentence (4), an *air-supported structure* is permitted to be attached to another *building* provided the *building* to which it is attached

(a) conforms to the requirements of other Parts of the Code based on the total *building areas* of the *air-supported structure* and the attached *building*,

(b) is *sprinklered*, and

(c) is separated from the *air-supported structure* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

(4) An *air-supported structure* is permitted to be attached to another *building* provided the *building* to which it is attached

(a) has a *building area* not more than 200 m<sup>2</sup>,

(b) conforms to the requirements of other Parts of the Code based on the *building area* of the attached *building*, and

(c) is *sprinklered* or separated from the *air-supported structure* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

### 3.13.2.4. Clearances to Flammable Material

(1) The ground enclosed by an *air-supported structure* and for not less than 3 m outside of such structure shall be clear of all flammable or *combustible* material or vegetation that will carry fire.

### 3.13.2.5. Flame Resistance

(1) *Air-supported structures* shall be constructed of material conforming to CAN/ULC S-109-M, "Standard for Flame Tests of Flame-Resistant Fabrics and Films", or NFPA 701, "Standard Method of Fire Tests for Flame-Resistant Textiles and Films".

(2) Materials for fabrics used in connection with *air-supported structures* are exempt from compliance with the requirements for *flame-spread ratings* for interior finishes in Subsection 3.1.13.

### 3.13.2.6. Emergency Air Supply

(1) An *air-supported structure* designed for an *assembly occupancy* with an *occupant load* of more than 200 persons shall have either an automatic emergency engine-generator set capable of powering one blower continuously for 4 h, or a supplementary blower powered by an automatic internal combustion engine.

## Section 3.14. Signs

### 3.14.1. Scope

#### 3.14.1.1. Application

(1) Except as provided otherwise in Article 3.14.1.2. this Section shall apply to the erection of all signs.

#### 3.14.1.2. Exceptions

(1) The following signs shall not be subject to the provisions of this Section

(a) signs for regulating traffic or similar devices, legal notices or warnings at railroad crossings,

(b) signs in display windows including writing, representation, painting or lettering directly on the surface of any window or door, or other signs not affixed to the *building* interior,

(c) small signs displayed for the direction of the public including signs which identify rest rooms, freight entrances and such other similar directional signs,

(d) signs painted directly on a *building*, and

(e) incidental signs or other signs subject to municipal approval.

### 3.14.2. Alterations

#### 3.14.2.1. Exceptions for Alterations

(1) The changing of movable parts of signs that are designed for changes, or the repainting of display matter shall not be deemed to be alterations.

### 3.14.3. Structural Requirements

#### 3.14.3.1. Structural Design

(1) Except as provided herein, all sign structures shall be designed in accordance with Part 4.

#### 3.14.3.2. Professional Design

(1) A sign structure shall be designed by an *architect* or *professional engineer* where it is

(a) a ground sign which exceeds 7.5 m in height above the adjacent finished ground,

(b) a projecting sign which weighs more than 115 kg, or

(c) a roof sign that has any face that is more than 10 m<sup>2</sup>.

(2) A projecting sign shall not be attached or fastened in any manner to a parapet wall unless designed by an *architect* or *professional engineer*.

### 3.14.4. Plastic Sign Facing Materials

#### 3.14.4.1. Combustible Sign Faces

(1) Plastic materials used in the construction of sign faces shall

(a) have an average burning rate not greater than 65 mm/min in sheets 1.5 mm thick when tested in accordance with ASTM D635, "Rate of Burning and/or Extent and Time of Burning of Self-supporting Plastics in a Horizontal Position",



- (b) have an average burning rate not greater than 140 mm/min when tested in accordance with ASTM D568, "Rate of Burning and/or Extent and Time of Burning of Flexible Plastics in a Vertical Position", and
- (c) have a measurement of material thickness in accordance with Method B-Machinists' Micrometer Without Ratchet of ASTM D374, "Thickness of Solid Electrical Insulation".

(2) Except as provided in Sentence (3), where the *exterior cladding* of a wall is required to be *noncombustible*, a plastic sign face or a group of contiguous plastic sign faces may be placed over such cladding provided each such sign face or group of contiguous sign faces

- (a) does not exceed 30% of the wall area of the *storey* on which it is installed,
- (b) does not exceed 15 m<sup>2</sup> in area or 1 200 mm in height at each *storey*, and
- (c) when located above the *first storey*, is vertically separated from other plastic sign faces by 1 200 mm of *noncombustible construction* unless separated by a horizontal *noncombustible* projection such as a *canopy*, extending the full width of, and projecting at least 900 mm beyond the exterior sign face.

(3) Where a plastic exterior sign is mounted as a face on a metal sign box that is at least 200 mm in depth, the requirements of Sentence (2) need not apply provided the sign box is mounted on a *noncombustible* exterior wall.

(4) Notwithstanding the requirements of Sentence (5), the plastic portion of an interior sign placed over or forming part of an interior wall surface in corridors, covered or enclosed *walkways* at or above *grade* in *buildings* shall

- (a) not exceed 15% of the wall area in, or over which it may be installed,
- (b) be supported by a device that will not detrimentally affect the *fire-resistance rating* of the interior wall to which it is attached or of which it may form a part, and encase the edges of the plastic sign face in metal,
- (c) not be positioned or sized in such a manner that it is less than 600 mm from the vertical line separating two adjacent premises,
- (d) be placed so that there is at least 600 mm vertical separation of *noncombustible* material between the top of the plastic sign surface and the ceiling surface,
- (e) be permitted to have an increase of 100% in area required in Clause (a) and a decrease of 50% of the separation distances required in Clauses (c) and (d) if the area is *sprinklered*, and
- (f) not have a *flame-spreading rating* above 250.

(5) Signs in *exits* and underground *walkways* shall have a *flame-spread rating* not more than 25.

### 3.14.5. Location Restrictions

#### 3.14.5.1. Obstructions not Permitted

(1) No sign shall be located so as to obstruct openings required for light and ventilation, any required *means of egress* or required access for fire-fighting in accordance with Sentence 3.2.5.4.(2).

#### 3.14.5.2. Clearance for Exterior Signs

(1) No exterior sign shall be erected overhanging a sidewalk or other pedestrian *walkway* unless the vertical distance, measured from the bottom of the overhanging portion of the sign to the surface of the sidewalk, is at least 2 400 mm.

(2) Except as provided hereinafter, no sign face shall be erected within 600 mm of the vehicular travelled portion of a private lane or roadway, or of a motor vehicle parking area unless the minimum vertical distance between *grade* and the bottom of the overhanging sign face is at least 4.25 m.

(3) Where the height of all vehicles using any private road or parking area is permanently restricted, the vertical distance in Sentence (2) may be reduced to the amount of the actual height restriction, for as long as the said height restriction is in existence on the premises.

### Section 3.15. Additional Requirements for Change of Use

#### 3.15.1. Scope

##### 3.15.1.1. Application

(1) This Section applies where proposed *construction* in respect of an existing *building* will result in the following changes of use of all or part of the *building*

- (a) a change of the *major occupancy* of all or part of a *building* that is designated with a "Y" in Table 2.4.1.1.,
- (b) a *suite* of a Group C *major occupancy* is converted into more than one *suite* of Group C *major occupancy*,
- (c) a *farm building* or part of a *farm building* is changed to a *major occupancy*, or
- (d) the use of a *building* or part of a *building* is changed and the previous *major occupancy* of the *building* or part of the *building* cannot be determined.

(2) The changes in use described in Clauses (1)(b) to (d) shall be deemed to be a change of *major occupancy* for the purposes of this Section and Sentence 11.4.2.1.(1).

(3) The requirements of this Section are in addition to the requirements of other Parts of the Code as they apply to the proposed *construction*.

#### 3.15.2. Additional Construction

##### 3.15.2.1. Change of Use and Compensating Construction

(1) Where proposed *construction* will result in a change of use described in Clauses 3.15.1.1.(1)(a) to (d), additional *construction* shall be required in order that the *building* or part of a *building* subject to the change of use conforms to the requirements of Subsection 3.2.6. and Sections 3.7. and 3.11. as they apply to the new *major occupancy* that the *building* or part of a *building* is to support.

(2) For the purposes of this Article, existing *buildings* shall be classified as to their *construction* and *occupancy* as provided for in Sentence 11.2.1.1.(1).

##### 3.15.2.2. Performance Level and Compensating Construction

(1) The *performance level* of a *building* after *construction* shall not be less than the *performance level* of the *building* prior to *construction*.

(2) For the purposes of Sentence (1), reduction of *performance level* shall be determined in accordance with the requirements of Articles 11.4.2.1. and 11.4.2.3.



(3) Where proposed *construction* would reduce the *performance level* of an existing *building*, compensating *construction* shall be required in conformance with Articles 11.4.3.1., 11.4.3.2. and 11.4.3.4.

(4) Section 11.5. applies in respect of the requirements of Sentences 11.4.3.4.(1), (3) and (4).

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## Part 4 Structural Design

### Section 4.1. Structural Loads and Procedures

#### 4.1.1. General

##### 4.1.1.1. Scope

(1) The scope of this Part shall be as described in Section 2.1.

##### 4.1.1.2. Definitions

(1) Reserved

##### 4.1.1.3. Design Requirements

(1) *Buildings* and their structural members including formwork and falsework shall be designed to have sufficient structural capacity and structural integrity to resist safely and effectively all loads and effects of loads and influences that may reasonably be expected, having regard to the expected service life of *buildings*, and shall in any case satisfy the requirements of this Section.

(2) All permanent and temporary structural members, including formwork and falsework of a *building*, shall be protected against loads exceeding the specified loads during the *construction* period except when, as verified by analysis or test, temporary overloading of a structural member would result in no impairment of that member or any other member.

(3) Reserved

(4) Precautions shall be taken during all stages of *construction* to ensure that the *building* is not damaged or distorted due to loads applied during *construction*.

#### 4.1.1.4. Design Basis

(1) *Buildings* and their structural members shall be designed by one of the following methods:

- (a) standard design procedures and practices provided by this Part and any standards and specifications referred to therein, except in cases of conflict the provisions of the *building code* shall govern, or
- (b) one of the following three bases of design:
  - (i) analysis based on generally established theory,
  - (ii) evaluation of a given full-scale structure or a prototype by a loading test,
  - (iii) studies of model analogues,

provided the design is carried out by a person qualified in the specific method applied and provided the design ensures a level of safety and performance at least equivalent to that provided for or implicit in design carried out by the methods referred to in Clause (a).

(2) Communications towers, dish antennas and their supporting structures shall conform to CAN/CSA-S37-M, "Antennas, Towers, and Antenna Supporting Structures".

#### 4.1.1.5. Deflections

(1) In proportioning structural members to limit deflection, consideration shall be given to

- (a) the intended use of the *building* or member,
- (b) limiting damage to non-structural members and materials whose physical properties are known at the time of the design,
- (c) limiting damage to the structure itself, and
- (d) creep, shrinkage and temperature.

(2) Sway effects produced by vertical loads acting on the structure in its displaced configuration shall be taken into account in the design of *buildings* and their structural members.

(3) The lateral deflection of *buildings* due to design wind and gravity loads shall be checked to ensure that nonstructural elements whose nature is known at the time the structural design is carried out will not be damaged.

(4) Except as provided in Sentence (5), the total drift per *storey* under specified wind and gravity loads shall not exceed 1/500 of the *storey* height unless other drift limits are specified in the design standards referenced in Section 4.3.

(5) The deflection limits required in Sentence (4) do not apply to industrial *buildings* or sheds if it is known by experience that greater

movement will have no significantly adverse effect on the strength and function of the *building*.

#### 4.1.1.6. Vibrations

(1) Floor systems susceptible to vibrations shall be designed so that there will be no significantly adverse effects on the intended *occupancy* of the *building* from vibrations.

(2) Unusually flexible *buildings* and *buildings* whose ratio of height to minimum effective width exceeds 4 to 1 shall be designed so that there will be no significant adverse effects on the intended *occupancy* of the *building* from vibrations under dynamic wind load.

#### 4.1.1.7. Stability

(1) Provision shall be made to ensure adequate stability of a structure as a whole, and adequate lateral, torsional and local stability of all structural parts.

#### 4.1.1.8. Reserved

### 4.1.2. Specified Loads and Effects

#### 4.1.2.1. Loads, Forces and Effects

(1) Except as provided for in Article 4.1.2.2., the following specified loads, forces and effects shall be considered in the design of a *building* and its structural members and connections:

**D** - *dead loads* as provided for in Subsection 4.1.5.,

**E** - *live load* due to earthquake as specified in Subsection 4.1.9.,

**L** - *live load* due to static or inertia forces arising from intended use and *occupancy* (includes vertical loads due to cranes); snow, ice and rain; earth and hydrostatic pressure,

**T** - effects due to contraction or expansion caused by temperature changes, shrinkage, moisture changes, creep in component materials, movement due to differential settlement or combination thereof,

**W** - *live load* due to wind as specified in Subsection 4.1.8.

(2) Minimum specified values of these loads, as set forth in Subsections 4.1.5. to 4.1.10., shall be increased to account for dynamic effects where applicable.

#### 4.1.2.2. Loads Not Listed

(1) Where a *building* or structural member can be expected to be subjected to loads, forces or other effects not listed in Article 4.1.2.1., such effects shall be taken into account in the design based on the most appropriate information available.

(2) If it can be shown by engineering principles, or if it is known from experience, that neglect of some or all of the effects due to **T** do not affect the structural safety and serviceability, they need not be considered in the calculations.

#### 4.1.2.3. Structural Design

(1) Structural design shall be carried out in accordance with Subsection 4.1.4., Working Stress Design or Subsection 4.1.3., Limit States Design.

### 4.1.3. Limit States Design

#### 4.1.3.1. Definitions

(1) In this Subsection, the term

(a) limit states means those conditions of a *building* structure in which the *building* ceases to fulfil the function for which it was designed,

(Those states concerning safety are called ultimate limit states and include exceeding the load carrying capacity, overturning, sliding, fracture and fatigue, while those states which restrict the intended use and *occupancy* of the *building* are called serviceability limit states, and include deflection, vibration, permanent deformation and cracking.)

(b) specified loads (**D**, **E**, **L**, **T** and **W**) mean those loads defined in Article 4.1.2.1. and given in this Section,

(c) load factor,  $\alpha$ , means a factor in Sentence 4.1.3.2.(4) applied to a specified load which, for the limit states under consideration, takes into account the variability of the loads and load patterns and analysis of their effects,

(d) factored load means the product of a specified load and its load factor,

(e) load combination factor,  $\Psi$ , means a factor in Sentences 4.1.3.2.(5) and (6) applied to the factored loads other than *dead load* to take into account the reduced probability of a number of loads from different sources acting simultaneously,

(f) importance factor,  $\gamma$ , means a factor in Sentence 4.1.3.2.(7) applied to the factored loads other than *dead load* to take into account the consequences of collapse as related to the use and *occupancy* of the *building*,

(g) resistance, **R**, of a member, connection, structure or *foundation*, is based on the dimensions and on the specified properties of the structural materials,

(h) resistance factor,  $\phi$ , means a factor applied to a specified material property or to the resistance of a member, connection, structure or *foundation*, which for the limit state under consideration takes into account the variability of dimensions and material properties, workmanship, type of failure and uncertainty in the prediction of resistance, and

(i) factored resistance means the product of resistance and the applicable resistance factor.

#### 4.1.3.2. Safety Check for Strength and Stability

(1) A *building* and its structural components shall be designed to have sufficient strength and stability so that the factored resistance is greater than or equal to the effect of factored loads, as required in Sentences (3) or (8).

(2) In cases of overturning, uplift and sliding, anchorage is required if the effect of loads tending to cause overturning, uplift or sliding, multiplied by load factors greater than 1.0 given in Sentence (4), is greater than the stabilizing effect of *dead load* multiplied by a load factor of 0.85 as given in Sentence (4).

(3) For load combinations not including earthquake, the effect of factored loads is the structural effect due to the specified loads multiplied by load factors,  $\alpha$ , in Sentence (4), a load combination factor,  $\psi$ , in Sentences (5) and (6) and an importance factor,  $\gamma$ , in Sentence (7), and the factored load combinations shall be taken as

$$\alpha_D D + \gamma \psi [\alpha_L L + \alpha_W W + \alpha_T T]$$



(4) The load factors,  $\alpha$ , shall be equal to

(a)  $\alpha_D = 1.25$ , except that when the *dead load* resists overturning, uplift or reversal of load effect,  $\alpha_D = 0.85$ ,

(b)  $\alpha_L = 1.5$ ,

(c)  $\alpha_W = 1.5$ , and

(d)  $\alpha_T = 1.25$ .

(5) The load combination factor,  $\Psi$ , shall be equal to

(a) 1.0 when only 1 of the loads **L**, **W** and **T** in Sentence 4.1.2.1.(1) acts,

(b) 0.70 when 2 of the loads **L**, **W** and **T** in Sentence 4.1.2.1.(1) act, and

(c) 0.60 when all of the loads **L**, **W** and **T** in Sentence 4.1.2.1.(1) act.

(6) The most unfavourable effect shall be determined by considering the loads **L**, **W** and **T** in Sentence 4.1.2.1.(1) acting alone with  $\Psi = 1.0$  or in combination with  $\Psi = 0.70$  or 0.60.

(7) The importance factor,  $\gamma$ , shall be not less than 1.0 for all *buildings*, except that for *buildings* where it can be shown that collapse is not likely to cause injury or other serious consequences, it shall be not less than 0.8.

(8) For load combinations including earthquake, the factored load combinations shall be taken as

(a)  $1.0D + \gamma(1.0E)$  and either,

(b)  $1.0D + \gamma(1.0L + 1.0E)$  for storage and *assembly occupancies*, or

(c)  $1.0D + \gamma(0.5L + 1.0E)$  for all other *occupancies*.

#### 4.1.3.3. Serviceability and Fatigue

(1) A *building* and its structural components shall be checked for serviceability limit states as defined in Clause 4.1.4.1.(1)(a) and fatigue under the effect of the specified loads as required in the standards described in Section 4.3.

(2) Where more than one load contributes to the stress in a member, the combination of loads shall be assumed to be

$$D + \psi[L + W + T]$$

where  $\Psi$  is in conformance with Sentences 4.1.3.2.(5) and (6).

#### 4.1.4. Working Stress Design

##### 4.1.4.1. Load Combinations

(1) In designing *buildings* and their structural members, all of the loads listed in Article 4.1.2.1. shall be considered to act in the following combinations, whichever combination produces the most unfavourable effects in the *building*, *foundation* or structural member concerned, when appropriately reduced according to Article 4.1.4.2.

(a) **D**

(b) **D + L**

(c) **D + (W or 2/3E)**

(d) **D + T**

(e) **D + L + (W or 2/3E)**

(f) **D + L + T**

(g) **D + (W or 2/3E) + T**

(h) **D + L + (W or 2/3E) + T**

##### 4.1.4.2. Load Combination Factors

(1) The total of the combined load effects may be multiplied by the following load combination factors:

(a) 1.0 for the combinations in Clauses 4.1.4.1.(1)(a) to (d),

(b) 0.75 for the combinations in Clauses 4.1.4.1.(1)(e) to (g), and

(c) 0.66 for the combination in Clause 4.1.4.1.(1)(h).

##### 4.1.4.3. Stress Reversal

(1) When loads other than **D** counteract **D** in a structural member or joint, special caution shall be exercised by the *designer* to ensure adequate safety for possible stress reversal.

##### 4.1.4.4. Overturning and Sliding

(1) A *building* shall be proportioned to resist an overturning moment and sliding force of not less than twice that due to the loads acting on the structure when the structure is considered as an entire unit acting on or anchored to its bearing stratum or supporting structure.

(2) The resistance to overturning shall be calculated as the sum of the stabilizing moment of the *dead load* only, plus the ultimate resistance of any anchoring devices.

#### 4.1.5. Dead Loads

##### 4.1.5.1. Dead Loads

(1) The specified *dead load* for a structural member consists of

(a) the weight of the member itself,

(b) the weight of all materials of *construction* incorporated into the *building* to be supported permanently by the member,

(c) the weight of *partitions*,

(d) the weight of permanent equipment, and

(e) forces due to prestressing.

(2) Except as provided in Sentence (5), in areas of a *building* where *partitions* other than permanent *partitions* are shown on the drawings, or where *partitions* might be added in the future, allowance shall be made for the weight of such *partitions*.

(3) The *partition* weight allowance in Sentence (2) shall be determined from the actual or anticipated weight of the *partitions* placed in any probable position, but shall be not less than 1 kPa over the area of floor being considered.

(4) *Partition* loads used in design shall be shown on the drawings in sufficient detail to enable the loads due to materials of *construction* incorporated in the *building* to be determined.

(5) In cases where the *dead load* is counteractive, the load allowances as provided in Sentences (2) and (3) shall not be included in the design calculations.



**4.1.6. Live Loads Due to Use and Occupancy****4.1.6.1. Loads Due to Use of Floors and Roofs**

(1) The specified *live load* on an area of floor or roof depends on the intended use and *occupancy*, and shall not be less than the uniformly distributed load patterns in Article 4.1.6.3., the loads resulting from the intended use or the concentrated loads in Article 4.1.6.10., whichever produces the most critical effect.

**4.1.6.2. Uses Not Stipulated**

(1) Where the use of an area of floor or roof is not provided for in Article 4.1.6.3., the specified *live loads* due to the use and *occupancy* of the area shall be determined from an analysis of the loads resulting from

- (a) the weight of the probable assembly of persons,
- (b) the weight of the probable accumulation of equipment and furnishings, and
- (c) the weight of the probable storage of materials.

**4.1.6.3. Full and Partial Loading**

(1) The uniformly distributed load shall be not less than the value listed in Table 4.1.6.3., reduced as may be provided for in Article 4.1.6.9., applied uniformly over the entire area, or on any portions of the area, whichever produces the most critical effects in the members concerned.

**Table 4.1.6.3.****Specified Uniformly Distributed Live Loads on an Area of Floor or Roof**

Forming Part of Sentence 4.1.6.3.(1)

Use of Area of Floor or Roof	Minimum Specified Load, kPa
Assembly Areas	
(a) except for those areas listed under (b) and (c), assembly areas with or without fixed seats including Arenas, Rinks, Stadia, Auditoria, Gymnasias Churches, Museums, Promenades Dance floors, Dining areas <sup>(1)</sup> Foyers and entrance halls Grandstands, reviewing stands and bleachers Stages, Theatres and other areas with similar uses	4.8
(b) assembly areas with fixed seats that have backs over at least 80 per cent of the assembly area for the following uses: Churches, Courtrooms, Lecture halls, Theatres	2.4
(c) classrooms with or without fixed seats	2.4
Attics Accessible by a stairway in <i>residential occupancies</i> only	1.4

Having limited accessibility so that there is no storage of equipment or materials	0.5
Balconies	
Exterior	4.8
Interior and <i>mezzanines</i> that could be used for the assembly of people as a viewing area <sup>(2)</sup>	4.8
Interior and <i>mezzanines</i> other than above	(3)
Corridors, lobbies and aisles	
Other than those listed below	4.8
Not over 1 200 mm in width and all upper floor corridors of residential areas only of apartments, hotels and motels (that can not be used for the assembly of people as a viewing area) <sup>(2)</sup>	(3)
Equipment areas and <i>service rooms</i> including Generator rooms Mechanical equipment exclusive of elevators Machine rooms Pump rooms Transformer vaults Ventilating or <i>air-conditioning</i> equipment	3.6 <sup>(4)</sup>
Exits and fire escapes	4.8
Factories	6.0 <sup>(4)</sup>
Footbridges	4.8
Garages for Passenger cars Unloaded buses and light trucks Loaded buses and trucks and all other trucking spaces	2.4 6.0 12.0
Kitchens (other than residential)	4.8
Libraries Stack rooms Reading and study rooms	7.2 2.9
Office areas (not including record storage and computer rooms) located in <i>Basement and first storey</i> Floors above <i>first storey</i> Operating rooms and laboratories	4.8 2.4 3.6
Patients' bedrooms	1.9
Recreation areas that cannot be used for assembly purposes including Billiard rooms Bowling alleys Pool rooms	3.6
Residential areas (within the scope of Article 2.1.1.2.) Sleeping and living quarters in apartments, <i>hotels</i> , motels, boarding schools and colleges Work areas within <i>live/work units</i>	1.9 2.4
Residential areas (within the scope of Article 2.1.1.3.) Bedrooms Other areas Stairs within <i>dwelling units</i> Retail and wholesale areas	1.4 1.9 1.9 4.8

Roofs	1.0 <sup>(5)</sup>
Sidewalks and driveways over areaways and basements	12.0
Storage areas, including locker rooms in apartment buildings	4.8 <sup>(4)</sup>
Toilet areas	2.4
Underground slabs with earth cover	(4)
Warehouses	4.8 <sup>(4)</sup>
Column 1	2

**Notes to Table 4.1.6.3.:**

- (1) See Article 4.1.6.6.  
 (2) Reserved  
 (3) See Article 4.1.6.4.  
 (4) See Article 4.1.6.7.  
 (5) See Article 4.1.7.1.

**4.1.6.4. Loads for Occupancy Served**

(1) The following shall be designed to carry not less than the specified load required for the *occupancy* they serve:

- (a) corridors, lobbies and aisles not over 1 200 mm in width,
- (b) all corridors above the *first storey* of residential areas of apartments, hotels and motels, and
- (c) interior balconies and *mezzanines*,

provided they cannot be used by an assembly of people as a viewing area.

**4.1.6.5. Loads on Exterior Areas**

(1) Exterior areas accessible to vehicular traffic shall be designed for their intended use including the weight of fire fighting equipment, but not less than the *live loads* due to snow, ice and rain prescribed in Subsection 4.1.7.

(2) Exterior areas accessible to pedestrian traffic, but not vehicular traffic, shall be designed for their intended use, but not less than

- (a) the *live load* prescribed for assembly areas in Table 4.1.6.3., and
- (b) the *live loads* due to snow, ice and rain as prescribed in Subsection 4.1.7.

**4.1.6.6. Loads for Dining Areas**

(1) The minimum specified load in Table 4.1.6.3. for dining areas may be reduced to 2.4 kPa for dining areas in *buildings* that have been converted for such purposes provided that the *floor area* does not exceed 100 m<sup>2</sup> and use of the dining area for other assembly purposes including dancing is precluded.

**4.1.6.7. Floor Loads Due to Intended Use**

(1) Equipment areas and *service rooms*, factories, storage areas and warehouses shall be designed for the loads due to their intended use but not less than the specified loads listed in Table 4.1.6.3.

**4.1.6.8. More Than One Occupancy**

(1) Where an area of floor or roof is intended for 2 or more *occupancies* at different times, the value to be used from Table 4.1.6.3. shall be the greatest value for any of the *occupancies* concerned.

**4.1.6.9. Variation with Tributary Area**

(1) An area used for *assembly occupancies* designed for a *live load* of less than 4.8 kPa shall have no reduction for tributary area.

(2) Where a structural member supports a tributary area of floor, roof or combination thereof greater than 80 m<sup>2</sup> used for *assembly occupancies* designed for a *live load* of 4.8 kPa or more, or for storage, manufacturing, retail stores, garages or as a footbridge, the specified *live load* due to use and *occupancy*, excluding snow, is the load provided for in Article 4.1.6.3. multiplied by

$$0.5 + \sqrt{(20/A)}$$

where A is the tributary area in square metres for this type of use and *occupancy*, excluding the area supporting snow.

(3) Where a structural member supports a tributary area of floor, roof or combination of these greater than 20 m<sup>2</sup> for any use or *occupancy* other than *assembly occupancies* and those indicated in Sentences (1) and (2), the specified *live load* due to use and *occupancy*, excluding snow, is the load provided for in Article 4.1.6.3. multiplied by

$$0.3 + \sqrt{(9.8/B)}$$

where B is the tributary area in square metres for this type of use and *occupancy*, excluding the area supporting snow.

**4.1.6.10. Concentrated Loads**

(1) The specified load due to possible concentrations of load resulting from the use of an area of floor or roof shall not be less than that listed in Table 4.1.6.10. applied over an area of 750 mm by 750 mm located so as to cause maximum effects, except that for *occupancies* not listed in Table 4.1.6.10., the concentrations of load shall be determined in accordance with Article 4.1.6.2.

**4.1.6.11. Bleacher Seats**

(1) Bleacher seats shall be designed for a uniformly distributed load of 1.75 kN for each linear metre or for a concentrated load of 2.2 kN distributed over a length of 750 mm, whichever produces the greatest effect on the supporting members.

**4.1.6.12. Helicopter Landing Areas**

(1) Helicopter landing areas on roofs shall be constructed in conformance with "Heliport and Helideck Standards and Recommended Practices", third edition, 1985, published by Transport Canada.

**4.1.6.13. Roof Parking Decks**

(1) Roof parking decks shall be designed for the uniformly distributed loads in Table 4.1.6.3., the concentrated loads in Table 4.1.6.10. or the roof snow load, whichever produces the greatest effect in the members concerned.

Table 4.1.6.10.

## Specified Concentrated Live Loads on an Area of Floor or Roof

Forming Part of Sentence 4.1.6.10.(1)

Area of Floor or Roof	Minimum Specified Concentrated Load, kN
Roof surfaces	1.3
Floors of classrooms	4.5
Floors of offices, manufacturing <i>buildings</i> , hospital wards and <i>stages</i>	9.0
Floors and areas used by passenger cars	11
Floors and areas used by vehicles not exceeding 3600 kg gross weight	18
Floors and areas used by vehicles exceeding 3600 kg but not exceeding 9000 kg gross weight	36
Floors and areas used by vehicles exceeding 9000 kg gross weight	54
Driveways and sidewalks over areaways and <i>basements</i>	54
Column 1	2

## 4.1.7. Live Loads Due to Snow, Ice and Rain

## 4.1.7.1. Specified Snow Loading

(1) The specified loading,  $S$ , due to snow accumulation on a roof or any other *building* surface subject to snow accumulation shall be calculated from the formula

$$S = S_s(C_b \cdot C_w \cdot C_s \cdot C_a) + S_r$$

where  $S_s$  is the ground snow load in kPa, determined in accordance with Subsection 2.5.1.,

$S_r$  is the associated rain load in kPa determined in accordance with Subsection 2.5.1., but not greater than  $S_s(C_b \cdot C_w \cdot C_s \cdot C_a)$ ,

$C_b$  is the basic roof snow load factor of 0.8,

$C_w$  is the wind exposure factor in Sentences (2) and (3),

$C_s$  is the slope factor in Sentences (4), (5) and (6), and

$C_a$  is the accumulation factor in Sentence (7).

(2) Except as provided for in Sentence (3), the wind exposure factor,  $C_w$ , shall be 1.0.

(3) The wind exposure factor in Sentence (2) may be reduced to 0.75, or in exposed areas north of the treeline to 0.5, where

(a) the *building* is in an exposed location, so that the roof is exposed to the winds on all sides, with no obstructions higher than the roof located closer to the *building* than a distance equal to 10 times the height of the obstruction above the roof,

(b) the area of roof under consideration is exposed to the wind on all sides with no significant obstructions on the roof, such as parapet walls, within a distance of at least 10 times the difference

between the height of the obstruction and  $C_b \cdot C_w \cdot S_s / \gamma$  metres, where  $\gamma$  is the unit weight of snow on roofs, and

(c) the loading does not involve accumulation of snow due to drifting from adjacent surfaces.

(4) Except as provided for in Sentences (5) and (6), the slope factor,  $C_s$ , shall be

(a) 1.0 when the roof slope,  $\alpha$ , is equal to or less than  $30^\circ$ ,

(b)  $(70^\circ - \alpha)/40^\circ$  when  $\alpha$  is greater than  $30^\circ$ , but not greater than  $70^\circ$ , and

(c) 0 when  $\alpha$  exceeds  $70^\circ$ .

(5) The slope factor,  $C_s$ , for unobstructed slippery roofs where snow and ice can slide completely off the roof shall be

(a) 1.0 when the roof slope,  $\alpha$ , is equal to or less than  $15^\circ$ ,

(b)  $(60^\circ - \alpha)/45^\circ$  when  $\alpha$  is greater than  $15^\circ$ , but not greater than  $60^\circ$ , and

(c) 0 when  $\alpha$  exceeds  $60^\circ$ .

(6) The slope factor,  $C_s$ , shall be 1.0 when used in conjunction with accumulation factors for increased snow load as given in Subclauses (7)(c)(ii) and (7)(c)(v).

(7) The accumulation factor,  $C_a$

(a) shall be 1.0, except that

(b) for large flat upper or lower roofs it shall be

(i)  $1.2 [1 - (30/l^*)^2]$  but not less than 1.0, for roofs with  $C_w = 1.0$ , or

(ii)  $1.6 [1 - (120/l^*)^2]$  but not less than 1.0, for roofs with  $C_w = 0.75$  or 0.5,

where

$l^*$  = the characteristic length of the upper or lower roof defined as  $l^* = 2w - w^2/l$ , in metres,

$w$  = the smaller plan dimension of the roof, in metres,

$l$  = the larger plan dimension of the roof, in metres,

and

(c) where appropriate for the shape of the roof, shall be assigned other values which account for

(i) non-uniform snow loads on gable, arched or curved roofs and domes,

(ii) increased snow loads in valleys,

(iii) increased non-uniform snow loads due to snow drifting onto a roof which is at a level lower than other parts of the same *building* or at a level lower than another *building* within 5 m of it,

(iv) increased non-uniform snow loads on areas adjacent to roof projections, such as penthouses, large *chimneys* and equipment, and

(v) increased snow or ice loads due to snow sliding or drainage of meltwater from adjacent roofs.



#### 4.1.7.2. Full and Partial Loading

(1) A roof or other *building* surface and its structural members subject to loads due to snow accumulation shall be designed for the specified load in Sentence 4.1.7.1.(1), distributed over the entire loaded area.

(2) In addition to the distribution in Sentence (1), flat roofs and shed roofs, gable roofs of 15° slope or less and arched or curved roofs with rise to span ratios equal to or less than 1/10 shall be designed for the specified uniform snow load in Sentence 4.1.7.1.(1), computed using  $C_a = 1.0$ , distributed on any 1 portion of the loaded area, and half of this load on the remainder of the loaded area, in such a way as to produce the greatest effects on the member concerned.

#### 4.1.7.3. Specified Rain Load

(1) The specified load due to the accumulation of rain water on a surface, whose position and shape and deflection under load is such as to make such an accumulation possible, is that resulting from the 24 h rainfall determined in conformance with Subsection 2.5.1. over the horizontal projection of the surface and all tributary surfaces.

(2) The provisions of Sentence (1) apply whether or not the surface is provided with drainage, such as rain water leaders.

(3) Except as provided for in Sentence 4.1.7.1.(1) and except where a roof is intended to provide rain water retention, loads due to rain need not be considered to act simultaneously with loads due to snow.

#### 4.1.8. Live Loads Due to Wind

##### 4.1.8.1. Specified Wind Loading

(1) The specified external pressure or suction due to wind on part or all of a surface of a *building* shall be calculated from

$$p = qC_eC_gC_p$$

where  $p$  = the specified external pressure acting statically and in a direction normal to the surface either as a pressure directed towards the surface or as a suction directed away from the surface,

$q$  = the reference velocity pressure as provided for in Sentence (4),

$C_e$  = the exposure factor as provided for in Sentence (5),

$C_g$  = the gust effect factor as provided for in Sentence (6), and

$C_p$  = the external pressure coefficient averaged over the area of the surface considered.

(2) The net wind load for the *building* as a whole shall be the algebraic difference of the loads on the windward and the leeward surfaces, and in some cases may be calculated as the products of the external pressures or suctions and the areas of the surfaces over which they are averaged as provided in Sentence (1).

(3) The net specified pressure due to wind on part or all of a surface of a *building* shall be the algebraic difference of the external pressure or suction as provided for in Sentence (1) and the specified internal pressure or suction due to wind calculated from

$$p_i = qC_eC_gC_{pi}$$

where  $p_i$  = the specified internal pressure acting statically and in a direction normal to the surface either as a pressure (directed outwards) or as a suction (directed inwards),

$q$  = the reference velocity pressure, as provided for in Sentence 4,

$C_e$  = the exposure factor, as provided for in Sentence 5, evaluated at the building mid-height instead of the height of the element considered,

$C_g$  = the gust effect factor as provided for in Sentence (6), and

$C_{pi}$  = the internal pressure coefficient.

(4) The reference velocity pressure,  $q$ , is the appropriate value determined in conformance with Subsection 2.5.1. for the following conditions:

- (a) the reference velocity pressure,  $q$ , for the design of cladding shall be based on a probability of being exceeded in any one year of 1 in 10,
- (b) the reference velocity pressure,  $q$ , for the design of structural members for deflection and vibration shall be based on a probability of being exceeded in any one year of 1 in 10,
- (c) for all *buildings*, except those listed in Clause (d), the reference velocity pressure,  $q$ , for the design of structural members for strength shall be based on a probability of being exceeded in any one year of 1 in 30, and
- (d) the reference velocity pressure,  $q$ , for the design of structural members for strength for *post-disaster buildings* shall be based on a probability of being exceeded in any one year of 1 in 100.

(5) The exposure factor  $C_e$  shall be

- (a) the value shown in Table 4.1.8.1. for the appropriate reference height for the surface or part of the surface,
- (b) the value of the function  $(h/10)^{1/5}$  but not less than 0.9 where  $h$  is the reference height above *grade* in metres for the surface or part of the surface, or
- (c) if a dynamic approach to the action of wind gusts is used, an appropriate value depending on both height and shielding.

Table 4.1.8.1.

#### Exposure Factors, $C_e$

Forming Part of Sentence 4.1.8.1.(5)

Height, m	Exposure Factor
>0 to ≤ 6	0.9
> 6 to ≤ 12	1.0
> 12 to ≤ 20	1.1
> 20 to ≤ 30	1.2
> 30 to ≤ 44	1.3
> 44 to ≤ 64	1.4
> 64 to ≤ 85	1.5
> 85 to ≤ 140	1.6
> 140 to ≤ 240	1.8
> 240 to ≤ 400	2.0
Column 1	2

(6) The gust effect factor  $C_g$  is one of the following values:

- (a) 1.0 or 2.0 for internal pressures as appropriate,
- (b) 2.0 for the *building* as a whole and main structural members,
- (c) 2.5 for small elements including cladding, or
- (d) if a dynamic approach to the action of wind gusts is used, an appropriate value depending on the turbulence of the wind and the size and natural frequency of the structure.

#### 4.1.8.2. Dynamic Effects of Wind

(1) *Buildings* whose height is greater than 4 times their minimum effective width or greater than 120 m and other *buildings* whose light weight, low frequency and low damping properties make them susceptible to vibration shall be

- (a) designed by experimental methods for the danger of dynamic overloading and vibration and the effects of fatigue, or
- (b) designed using a dynamic approach to the action of wind gusts.

#### 4.1.8.3. Full and Partial Loading

(1) *Buildings* and structural members shall be capable of withstanding the effects of

- (a) the full winds acting along each of the two principal axes considered separately,
- (b) the wind loads as described in (a) but with 25% of the load removed from any portion of the area,
- (c) the wind loads as in (a) but considered simultaneously at 75% of their full value, and
- (d) the wind loads as described in (c) but with 25 per cent of these loads removed from any portion of the area.

#### 4.1.8.4. Interior Walls and Partitions

(1) In the design of interior walls and *partitions* due consideration shall be given to differences in air pressure on opposite sides of the wall or *partition* which may result from

- (a) pressure differences between the windward and leeward sides of a *building*,
- (b) stack effects due to a difference in air temperature between the exterior and interior of the *building*, and
- (c) air pressurization by the mechanical services of the *building*.

#### 4.1.9. Live Loads Due to Earthquakes

##### 4.1.9.1. Analysis

(1) The specified loading due to earthquake motion shall be determined by the analysis given in this Subsection.

- (2) In this Subsection

$A_r$	= response amplification to account for type of attachment of mechanical/electrical equipment, as defined in Sentence 4.1.9.1.(19),
$A_x$	= amplification factor at level x to account for variation of response of mechanical/electrical equipment with elevation within the <i>building</i> , as defined in Sentence 4.1.9.1.(19),
$C_p$	= seismic coefficient for mechanical/electrical equipment, as defined in Sentence 4.1.9.1.(19),
D	= the dimension of the <i>building</i> in a direction parallel to the applied forces,
$D_{nx}$	= plan dimension of the <i>building</i> at level x perpendicular to the direction of seismic loading being considered,
$D_s$	= dimension of wall or braced frame which constitutes the main lateral-load-resisting system in a direction parallel to the applied forces,
$e_x$	= distance measured perpendicular to the direction of seismic loading between centre of mass and centre of rigidity at the level being considered,
F	= <i>foundation</i> factor as given in Sentence 4.1.9.1.(11),
$F_t$	= portion of V to be concentrated at the top of the structure as defined in Sentence 4.1.9.1.(13),
$F_x$	= lateral force applied to level x,
$h_i, h_n, h_x$	= the height above the base ( $i = 0$ ) to level i, n, or x, respectively, where the base of the structure is that level at which the horizontal earthquake motions are considered to be imparted to the structure,
$h_s$	= interstorey height ( $h_i - h_{i-1}$ ),
I	= seismic importance factor of the structure, as described in Sentence 4.1.9.1.(10),
J	= numerical reduction coefficient for base overturning moment as defined in Sentence 4.1.9.1.(23),
$J_x$	= numerical reduction coefficient for moment at level "x" as defined in Sentence 4.1.9.1.(24),
Level i	= any level in the <i>building</i> , $i = 1$ for first level above the base,
Level n	= that level which is uppermost in the main portion of the structure,
Level x	= that level which is under design consideration,
N	= total number of <i>storeys</i> above exterior <i>grade</i> to level n, (N is usually numerically equal to n)
R	= force modification factor that reflects the capacity of a structure to dissipate energy through inelastic behaviour, as given in Sentence 4.1.9.1.(8),
S	= seismic response factor, for unit value of zonal velocity ratio, as defined in Sentence 4.1.9.1.(6),
$S_p$	= horizontal force factor for part or portion of a <i>building</i> and its anchorage, as given in Table 4.1.9.1.D. and Sentences 4.1.9.1.(17) and (19),
T	= fundamental period of vibration of the <i>building</i> or structure in seconds in the direction under consideration,
$T_x$	= floor torque at level x as defined in Sentence 4.1.9.1.(28),
U	= factor representing level of protection based on experience, as specified in Sentence 4.1.9.1.(4),

- $v$  = zonal velocity ratio = the specified zonal horizontal ground velocity expressed as a ratio to 1 m/s,
- $V$  = minimum lateral seismic force at the base of the structure, to be used with a load factor  $\alpha_E = 1.0$ ,
- $V_e$  = equivalent lateral force at the base of the structure representing elastic response, as specified in Sentence 4.1.9.1.(5),
- $V_p$  = lateral force on a part of the structure,
- $W$  = *dead load* plus 25% of the design snow load specified in Subsection 4.1.7. plus 60% of the storage load for areas used for storage and the full contents of any tanks,
- $W_i, W_x$  = that portion of  $W$  which is located at or is assigned to level  $i$  or  $x$ , respectively,
- $W_p$  = the weight of a part or portion of a structure, e.g. cladding, *partitions* and appendages,
- $Z_a$  = acceleration-related seismic zone,
- $Z_v$  = velocity-related seismic zone.

(3) Earthquake forces shall be assumed to act in any horizontal direction, except that independent design about each of the principal axes shall be considered to provide adequate resistance in the structure for earthquake forces applied in any direction.

(4) The minimum lateral seismic force,  $V$ , shall be calculated in accordance with the following formula:

$$V = (V_e/R)U$$

where  $U = 0.6$ .

(5) The equivalent lateral seismic force representing elastic response,  $V_e$ , shall be calculated in accordance with the following formula:

$$V_e = vSIFW$$

where  $v$  is the zonal velocity ratio determined in conformance with Subsection 2.5.1., except when  $Z_v = 0$  and  $Z_a > 0$  the value of  $Z_v$  shall be taken as 1 and  $v$  as 0.05 in all requirements of Subsection 4.1.9.

**Table 4.1.9.1.A.**

**Seismic Response Factors**

Forming Part of Sentence 4.1.9.1.(6)

T	$Z_a/Z_v$	S
$\leq 0.25$	$> 1.0$	4.2
	1.0	3.0
	$< 1.0$	2.1
$> 0.25$ but $< 0.50$	$> 1.0$	$4.2 - 8.4(T - 0.25)$
	1.0	$3.0 - 3.6(T - 0.25)$
	$< 1.0$	2.1
$\geq 0.50$	All values	$1.5/(T)^{1/2}$
Column 1	2	3

(6) The seismic response factor,  $S$ , shall conform to Table 4.1.9.1.A.

(7) The fundamental period,  $T$ , in Sentence (6) shall be determined by

- (a) the formula  $0.1 N$  for any moment-resisting frame, or by the formulae  $0.085(h_n)^{3/4}$  for a steel moment-resisting frame or  $0.075(h_n)^{3/4}$  for a concrete moment-resisting frame, where the moment-resisting system is a frame which resists 100% of the required lateral forces and the frame is not enclosed by or adjoined by more rigid elements that would tend to prevent the frame from resisting lateral forces, and where  $h_n$  is in metres,
- (b) the formula  $0.09 h_n/(D_s)^{1/2}$  for other structures, where  $h_n$  and  $D_s$  are in metres, and  $D_s$  = length of wall or braced frame which constitutes the main lateral-force-resisting system in the direction parallel to the applied forces; if the main lateral-force-resisting system does not have a well-defined length, then  $D$  shall be used in lieu of  $D_s$ , or
- (c) other established methods of mechanics; the value of  $V_e$  used for design shall be not less than 0.80 of the value computed using the period calculated in Clause (a) or (b).

(8) Except as provided for in Sentences 4.1.9.3.(1), (2) and (3) values of the force modification factor,  $R$ , shall conform to Table 4.1.9.1.B.

(9) For the purpose of applying Table 4.1.9.1.B.

- (a) a ductile moment-resisting frame shall mean a frame that is designed to resist the specified seismic forces and that, in addition, has adequate ductility or energy-absorptive capacity,
- (b) for combinations of different types of lateral-load-resisting systems acting in the same direction,  $R$  shall be taken as the lowest value of  $R$  corresponding to these systems except as given in Clause (c),
- (c) if one of the lateral-force-resisting systems of the structure is designed to take 100% of the lateral force,  $R$  can be selected as appropriate for the system; the components of the structure not considered to be part of the lateral-force-resisting system must be capable of resisting their gravity loads under seismically induced deformations calculated in accordance with Sentence 4.1.9.2.(2),
- (d) if it can be demonstrated through research or experience that the seismic performance of a structural system is at least equivalent to one of Cases 1-8, 10-14, 16-18 or 20-21 in Table 4.1.9.1.B., then such a structural system will qualify for a value of  $R$  corresponding to the equivalent case in that Table.

**Table 4.1.9.1.B.**

**Force Modification Factors**

Forming Part of Sentence 4.1.9.1.(8)

Case	Type of Lateral Load Resisting System	R
1 2 3 4 5 6 7 8 9	Steel Structures Designed and Detailed According to CAN/CSA-S16.1-M	
	ductile moment-resisting frame	4.0
	ductile eccentrically braced frame	4.0
	ductile steel plate shear wall	4.0
	ductile braced frame	4.0
	moment-resisting frame with nominal ductility	3.0
	nominally ductile steel plate shear wall	3.0
	braced frame with nominal ductility	2.0
	ordinary steel plate shear wall	2.0
	other lateral-force-resisting systems not defined in Cases 1 to 8	1.5
	Reinforced Concrete Structures Designed and Detailed According to CAN/CSA-A23.3-M	



10	ductile moment-resisting frame	4.0
11	ductile coupled wall	4.0
12	other ductile wall systems	3.5
13	moment-resisting frame with nominal ductility	2.0
14	wall with nominal ductility	2.0
15	other lateral-force-resisting systems not defined in Cases 10 to 14	1.5
	Timber Structures Designed and Detailed According to CSA-O86.1	
16	nailed shear panel with plywood, waferboard or OSB	3.0
17	concentrically braced heavy timber frame with ductile connections	2.0
18	moment-resisting wood frame with ductile connections	2.0
19	other systems not included in Cases 16 to 18	1.5
	Masonry Structures Designed and Detailed According to CSA-S304.1	
20	reinforced masonry wall with nominal ductility	2.0
21	reinforced masonry	1.5
22	unreinforced masonry	1.0
23	Other Lateral-force-resisting Systems not Defined in Cases 1 to 22	1.0
Column 1	2	3

(10) The seismic importance factor,  $I$ , shall equal 1.5 for *post-disaster buildings*, 1.3 for schools and 1.0 for all other *buildings*.

(11) The foundation factor,  $F$ , shall conform to Table 4.1.9.1.C., except that the product  $FS$  need not exceed 3.0 where  $Z_a$  does not exceed  $Z_v$  and need not exceed 4.2 where  $Z_a$  is greater than  $Z_v$ .

**Table 4.1.9.1.C.**

**Foundation Factors**

Forming Part of Sentence 4.1.9.1.(11)

Categories	Type and Depth of <i>Rock</i> and <i>Soil</i> Measured from the <i>Foundation</i> or <i>Pile Cap Level</i>	F
1	<i>Rock</i> , dense and very dense coarse-grained <i>soils</i> , very stiff and hard fine-grained <i>soils</i> ; compact coarse-grained <i>soils</i> and firm and stiff fine-grained <i>soils</i> from 0 to 15 m deep	1.0
2	Compact coarse-grained <i>soils</i> , firm and stiff fine-grained <i>soils</i> with a depth greater than 15 m; very loose and loose coarse-grained <i>soils</i> and very soft and soft fine-grained <i>soils</i> from 0 to 15 m deep	1.3
3	Very loose and loose coarse-grained <i>soils</i> , with depth greater than 15 m	1.5
4	Very soft and soft fine-grained <i>soils</i> with depth greater than 15 m	2.0
Column 1	2	3

(12) The weight,  $W$ , of the *building* shall be calculated in accordance with the following formula:

$$W = \sum_{i=1}^n W_i$$

(13) The total lateral seismic force,  $V$ , shall be distributed as follows:

- (a) a portion,  $F_t$ , shall be assumed to be concentrated at the top of the *building* and equal to 0.07  $TV$ , except that  $F_t$  need not exceed 0.25  $V$  and may be considered as zero where  $T$  does not exceed 0.7 s; the remainder,  $V - F_t$ , shall be distributed along the height of the *building*, including the top level, in accordance with the formula

$$F_x = (V - F_t) W_x h_x / \left( \sum_{i=1}^n W_i h_i \right), \text{ or}$$

- (b) by dynamic analysis, with the seismic effects scaled such that the base shear from the dynamic analysis equals  $V$  as given in Sentence 4.1.9.1.(4).

(14) The total shear in any horizontal plane shall be distributed to the various elements of the lateral-force-resisting system in proportion to their rigidities according to rational analysis, with due regard to the capacities and stiffnesses of the nonstructural elements and to the effects of torsion as required by Sentence 4.1.9.1.(28).

(15) Except as provided for in Sentence (16), parts of *buildings* as described in Tables 4.1.9.1.D. and 4.1.9.1.E. and their anchorage shall be designed to accommodate the deflections defined in Article 4.1.9.2., and for a lateral force,  $V_p$ , equal to  $vI.S_p.W_p$ , distributed according to the distribution of mass of the element under consideration, where  $v$  is determined in conformance with Subsection 2.5.1., and  $I$  is the same importance factor as used for the *building*.

(16) For non *post-disaster buildings* in zones where  $Z_a$  and  $Z_v$  are equal to or less than 1.0 and  $F$  is equal to or less than 1.3, the requirements of Sentence (15) shall not apply to Table 4.1.9.1.E. or to cases 7, 8, and 9 of Table 4.1.9.1.D.

(17) Reserved

(18) All fasteners and anchors in a ductile connection, such as bolts, inserts, welds, or dowels, shall be capable of developing 3 times the yield load of the body of the connection.

(19) The values of  $S_p$  in Sentences (15) and (16) for mechanical/electrical components shall be equal to:

$$S_p = C_p \cdot A_r \cdot A_x$$

where

$C_p$  = seismic coefficient for components of mechanical and electrical equipment as given Table 4.1.9.1.E.,

$A_r$  = 1.0 for components that are both rigid and rigidly connected and for non-brittle pipes and ducts,

= 1.5 for components located on the ground that are flexible or flexibly connected except for non-brittle pipes and ducts,

= 3.0 for all other cases,

$A_x$  = 1.0 +  $(h_x/h_n)$ .

Table 4.1.9.1.D.

Values of  $S_p$  for Architectural Parts or Portions of Buildings

Forming Part of Sentence 4.1.9.1.(15)

Category	Architectural Part or Portion of Building	Direction of Force	Value of $S_p$
1	All exterior and interior walls except those of Categories 2 and 3	Normal to flat surface	1.5
2	Cantilever parapet and other cantilever walls except retaining walls	Normal to flat surface	6.5
3	Exterior and interior ornamentalations and appendages	Any direction	6.5
4	Connections/attachments for Categories 1, 2 and 3	Any direction	2.5
	The body of ductile connections/ attachments		
	All fasteners and anchors in the ductile connection, such as bolts, inserts, welds or dowels		
	Non-ductile connections/ attachments	Any direction	15.0
5	Floors and roofs acting as diaphragms <sup>(2)</sup>	Any direction	0.7
6	Towers, chimneys, smokestacks and penthouses when connected to or forming part of a building <sup>(2)</sup>	Any direction	4.5
7	Horizontally cantilevered floors, balconies, beams, etc.	Vertical	4.5
8	Suspended ceilings, light fixtures and other attachments to ceilings with independent vertical support	Any direction	2.0
9	Masonry veneer connections	Normal to flat surface	5.0
Col. 1	2	3	4

## Notes to Table 4.1.9.1.D.:

<sup>(1)</sup> See Sentence 4.1.9.1.(18).<sup>(2)</sup> See Sentence 4.1.9.1.(21).

(20) For the purpose of applying Sentence (19)

- (a) components that are both rigid and rigidly connected are defined as those having a fundamental period for the component and connection less than or equal to 0.06 s, and

- (b) flexible components or connections are defined as those having a fundamental period greater than 0.06 s.

Table 4.1.9.1.E.

Values of  $C_p$  for Mechanical/Electrical Parts or Portions of Buildings

Forming Part of Sentence 4.1.9.1.(15)

Category	Mechanical/Electrical Part or Portion of Building	Direction of Force	Value of $C_p$
1	Machinery, fixtures, equipment, ducts, tanks and pipes (including contents) except as noted elsewhere in this table <sup>(1)</sup>	Any direction	1.0
2	Machinery, fixtures, equipment, ducts, tanks and pipes (including contents) containing toxic or explosive materials, materials having a flash point below 38°C or fire fighting fluids.	Any direction	1.5
3	Flat bottom tanks (including contents) attached directly to a floor at or below grade within a building.	Any direction	0.7
4	Flat bottom tanks (including contents) attached directly to a floor at or below grade within a building containing toxic or explosive materials having a flash point below 38°C or fire fighting fluids.	Any direction	1.0
Column 1	2	3	4

(21) Floors and roofs acting as diaphragms shall be designed for a minimum force corresponding to a value of  $S_p$  equal to 0.7 applied to loads tributary from that storey, unless a greater force  $F_x$  is assigned to the level under consideration as in Sentences (13) and (14).

(22) When the mass of a tank plus contents is greater than 10% of the mass of the supporting floor, the lateral forces shall be determined by rational analysis.

(23) The overturning moment,  $M$ , at the base of the structure shall be multiplied by a reduction coefficient,  $J$ , where

(a)  $J = 1$  where  $T$  is less than 0.5,

(b)  $J = (1.1 - 0.2T)$  where  $T$  is not less than 0.5, but not more than 1.5, and

(c)  $J = 0.8$  where  $T$  is greater than 1.5.

(24) The overturning moment  $M_x$  at any level  $x$  shall be

(a) multiplied by  $J_x$  where

$$J_x = J + (1 - J)(h_x/h_n)^3, \text{ and}$$

(b) distributed as required in Sentences (25), (26) and (27).

(25) The incremental changes in the design overturning moments, in the storey under consideration, shall be distributed to the various

resisting elements in the same proportion as the distribution of shears in the resisting system.

(26) Where other vertical members are provided which are capable of partially resisting the overturning moments, a redistribution may be made to these members if framing members of sufficient strength and stiffness to transmit the required loads are provided.

(27) Where a vertical-resisting element is discontinuous, the overturning moment carried by the lowest *storey* of that element shall be carried down as loads to the *foundation*.

(28) Torsional moments about a vertical axis of the *building* shall be calculated as

(a) for an analysis carried out in accordance with Clause 4.1.9.1.(13)(a), the torsional moments applied at each level throughout the *building* shall be derived for each of the following load cases considered separately

$$(i) T_x = F_x(1.5e_x + 0.1 D_{nx})$$

$$(ii) T_x = F_x(1.5e_x - 0.1 D_{nx})$$

$$(iii) T_x = F_x(0.5e_x + 0.1 D_{nx})$$

$$(iv) T_x = F_x(0.5e_x - 0.1 D_{nx})$$

where  $F_x$  is the lateral floor force at each level as given by Clause 4.1.9.1.(13)(a) and the term  $0.1 D_{nx} \cdot F_x$  represents the accidental torsional moment applied at each level and where each element in the *building* is designed for the most severe effect of the above load cases, or

(b) the effects of accidental torsional moments applied at each level throughout the *building* shall be derived for each of the following load cases considered separately and shall be added to the effects of a three dimensional dynamic analysis

$$(i) T_x = + 0.1 D_{nx} \cdot F_x$$

$$(ii) T_x = - 0.1 D_{nx} \cdot F_x$$

and where each element in the *building* is designed for the most severe effect of the above load cases and  $F_x$  is the lateral floor force at each level as given by Clause 4.1.9.1.(13)(a).

(29) The *building* design shall take full account of the possible effects of setbacks.

#### 4.1.9.2. Deflections

(1) Lateral deflections of a structure shall be calculated in accordance with accepted practice and based on the loads and requirements defined in this Section.

(2) Lateral deflections obtained from an elastic analysis using the loads given in Sentences 4.1.9.1.(13) and (14) and incorporating the effects of torsion shall be multiplied by  $R$  to give realistic values of anticipated deflections.

(3) The interstorey deflections based on the lateral deflections as calculated in Sentence (2) shall be limited to  $0.01h_s$  for *post-disaster buildings* and  $0.02h_s$  for all other *buildings*.

(4) All portions of the structure shall be designed to act as integral units in resisting horizontal forces, unless separated by adequate clearances which permit horizontal deflections of the structure consistent with values of deflections calculated in accordance with Sentence (2).

(5) The nonstructural components shall be designed so as not to transfer to the structural system any forces unaccounted for in the design, and any interaction of rigid elements such as walls and the structural system shall be designed so that the capacity of the structural system is not impaired by the action or failure of the rigid elements.

(6) Adjacent structures shall either be separated by the sum of their individual deflections as calculated in Sentence (2), or shall be connected to each other.

(7) The method of connection in Sentence (6) shall take into account the mass, stiffness, strength, ductility and anticipated motion of the connected *buildings* and the character of the connection.

(8) The deflections as calculated in Sentence (2) shall be used to account for sway effects due to seismic loading as required by Sentence 4.1.1.5.(2).

(9) The connected *buildings* in Sentence (6) shall be assumed to have the lowest  $R$  value of the *buildings* connected, unless the use of a higher value can be justified by rational analysis.

#### 4.1.9.3. Special Provisions

(1) *Buildings* more than 3 *storeys* in *building height* in velocity- or acceleration-related seismic zones of 2 and higher shall have a structural system as described in Cases 1-8, 10-14, 16-18 or 20-21 in Table 4.1.9.1.B.

(2) For *buildings* more than 60 m in height with a structural system having  $R = 2.0$  or  $R = 1.5$  as determined from Table 4.1.9.1.B. or as determined from Clause 4.1.9.1.(9)(b), the value of  $V$  shall be increased by 50% in velocity-related seismic zones of 4 and higher.

(3) Elevated tanks plus full contents not supported by a *building*, shall be designed using  $R = 1$  in the formula in Sentence 4.1.9.1.(4), with the conditions

- (a) the minimum and maximum value of the product  $S \cdot I$  shall be taken as 1.5 and 3.0, respectively,
- (b) the overturning moment reduction coefficient,  $J$ , as set forth in Sentence 4.1.9.1.(2) shall be 1.0, and
- (c) the torsional requirements of Sentence 4.1.9.1.(28) shall apply.

(4) For *buildings* in velocity- or acceleration-related seismic zones of 2 and higher in which discontinuities in columns or shear walls occur, special design provisions shall be made to ensure that failure at the point of discontinuity will not occur before the capacity of the remaining portion of the structure has been realized.

(5) In velocity- or acceleration-related seismic zones of 2 and higher, reinforcement conforming to Clause 6.3.3. of CSA-S304.1, "Masonry Design for Buildings (Limit States Design)" shall be provided for masonry *construction* in

- (a) *loadbearing* and lateral load-resisting masonry,
- (b) masonry enclosing elevator shafts and stairways, or used as *exterior cladding*, and
- (c) masonry *partitions*, except for *partitions* which
  - (i) do not exceed  $200 \text{ kg/m}^2$  in weight, and
  - (ii) do not exceed 3 m in height and are laterally supported at the top.

#### 4.1.9.4. Foundation Provisions

(1) *Foundations* shall be designed so that yielding will occur first in the superstructure and not the *foundations*, unless the design specifically provides otherwise.



(2) Except in velocity-related seismic Zone 0, individual *pile* footings, drilled piers and caissons shall be interconnected by ties in at least 2 directions.

(3) Ties in Sentence (2) shall be designed to carry by tension or compression a horizontal force equal to the greatest factored *pile* cap loading multiplied by a factor 0.5  $v$ , but not exceeding 10% of the greatest factored *pile* cap load, unless it can be demonstrated that equivalent restraints can be provided by other means.

(4) Except in velocity-related seismic Zone 0, *piles* shall be connected to the *pile* cap or structure by reinforcement having sufficient anchorage to develop the yield strength of the reinforcement, and the top of the *piles* (below the *pile* cap) shall be reinforced to allow ductile behaviour if the design depends upon such action.

(5) Except in velocity-related seismic Zones 0 and 1, *basement* walls shall be designed to resist seismic lateral pressures from backfill or natural ground.

#### 4.1.10. Other Effects

##### 4.1.10.1. Loads on Guards

(1) The minimum specified horizontal load applied inward or outward at the top of every required *guard* shall be

- (a) 3.0 kN/m for *means of egress* in grandstands, stadia, bleachers and arenas,
- (b) a concentrated load of 1.0 kN applied at any point for access walkways to equipment platforms, contiguous stairs and similar areas where the gathering of many people is improbable, and
- (c) 0.75 kN/m or a concentrated load of 1.0 kN applied at any point, whichever governs, for locations other than described in Clauses (a) and (b).

(2) Individual elements within the *guard*, including solid panels and pickets, shall be designed for a concentrated load of 0.5 kN at any point in the element.

(3) The loads required in Sentence (2) need not be considered to act simultaneously with the loads provided for in Sentences (1) and (4).

(4) The minimum specified load applied vertically at the top of every required *guard* shall be 1.5 kN/m and need not be considered to act simultaneously with the horizontal load provided for in Sentence (1).

##### 4.1.10.2. Loads on Vehicle Guardrails

(1) Vehicle guardrails for parking garages shall be designed for a concentrated load of 22 kN applied horizontally outward at any point 500 mm above the floor surface.

##### 4.1.10.3. Loads on Walls Acting As Guards

(1) Where the floor elevation on one side of a wall, including a wall around a shaft, is more than 600 mm higher than the elevation of the floor or ground on the other side, the wall shall be designed to resist the appropriate lateral design loads prescribed elsewhere in this Section or 0.5 kPa, whichever produces the greatest effect.

##### 4.1.10.4. Firewalls

- (1) *Firewalls* shall be designed to resist the maximum effect due to
- (a) the appropriate lateral design loads prescribed elsewhere in this Section, or

(b) a factored lateral load of 0.5 kPa under fire conditions as described in Sentence (2).

(2) Under fire conditions, when the *fire-resistance rating* of the structure is less than that of the *firewall*

- (a) lateral support shall be assumed to be provided by the structure on one side only, or
- (b) another structural support system capable of resisting the loads imposed by a fire on either side of the *firewall* shall be provided.

#### 4.1.10.5. Vibrations and Impact of Machinery and Equipment

(1) Where vibration effects, such as resonance and fatigue resulting from machinery or equipment, are likely to be significant, a dynamic analysis shall be carried out.

(2) The minimum specified load due to equipment, machinery or other objects that may produce impact shall be the sum of the weight of the equipment or machinery and its maximum lifting capacity, multiplied by an appropriate factor listed in Table 4.1.10.5.

Table 4.1.10.5.

#### Factors for the Calculation of Impact Loads

Forming Part of Sentence 4.1.10.5.(2)

Impact Due to	Factor
Operation of cab or radio operated cranes	1.25
Operation of pendant or hand operated cranes	1.10
Operation of elevators	(1)
Supports for light machinery, shaft or motor driven	1.20
Supports for reciprocating machinery (e.g. compressors)	1.50
Supports for power driven units (e.g. piston engines)	1.50
Column 1	2

#### Note to Table 4.1.10.5.

(1) See CAN/CSA-B44-M, Clauses 2.6.2. and 2.10.3.

(3) Crane runway structures shall be designed to resist a horizontal force applied normal to the top of the rails equal to not less than 20% of the sum of the weights of the lifted load and the crane trolley (excluding other parts of the crane).

(4) The force described in Sentence (3) shall be equally distributed on each side of the runway and shall be assumed to act in either direction.

(5) Crane runway structures shall be designed to resist a horizontal force applied parallel to the top of the rail equal to not less than 10% of the maximum wheel loads of the crane.

##### 4.1.10.6. Resonances and Sway Forces

(1) Where the fundamental vibration frequency of a structural system supporting an *assembly occupancy* used for rhythmic activities, such as dancing, concerts, jumping exercises or gymnastics, is less than 6 Hz, the effects of resonance shall be investigated by means of a dynamic analysis.

(2) The floor assembly and other structural elements that support fixed seats in any *building* used for *assembly occupancies* to accommodate large numbers of people at one time, such as grandstands, stadia and *theatre* balconies, shall be designed to resist a horizontal force equal to not less than 0.3 kN for each metre length of seats acting parallel to each row of seats, and not less than 0.15 kN for each metre length

of seat acting at right angles to each row of seats, assuming such forces to be acting independently of each other.

#### 4.1.10.7. Bleachers

(1) Bleachers shall be checked by the erector after erection to ensure that all structural members including bracing specified in the design have been installed.

(2) Telescopic bleachers shall be provided with locking devices to ensure stability while in use.

#### 4.1.10.8. Anchor Systems on Building Exterior

(1) Where maintenance and window cleaning operations are intended to be carried out on the exterior of a *building* described in Article 2.1.1.2, anchor systems shall be provided where any portion of the roof is more than 8 m above adjacent ground level.

(2) Except as provided in Sentence (3), the anchor systems in Sentence (1) shall be designed, installed and tested in conformance with CSA Standard Z91, "Safety Code for Window Cleaning Operations".

(3) Other anchor systems may be used where such systems provide an equal level of safety.

(4) The anchor system material shall be made of stainless steel, aluminum, or other corrosion resistant base material, or from steel that is hot dipped galvanised, in accordance with CSA Standard G164-M81, "Hot Dip Galvanising of Irregularly Shaped Articles".

### Section 4.2. Foundations

#### 4.2.1. General

##### 4.2.1.1. Application

(1) This Section applies to *excavations* and *foundation* systems for *buildings*.

#### 4.2.2. Subsurface Investigations and Reviews

##### 4.2.2.1. Subsurface Investigation

(1) A *subsurface investigation* shall be carried out, which shall include *groundwater* conditions.

##### 4.2.2.2. Reserved

##### 4.2.2.3. Review

(1) A review shall be carried out by the *designer* or by another suitably qualified person to ascertain that the subsurface conditions are consistent with the design and that *construction* is carried out in accordance with the design and good engineering practice.

(2) The review required in Sentence (1) shall be carried out

(a) on a continuous basis

(i) during the *construction* of all *deep foundation units* with all pertinent information recorded for each unit, and

(ii) during the installation and removal of retaining structures and related backfilling operations, and

(b) as required, unless otherwise directed by the *chief building official*

(i) in the *construction* of all *shallow foundation units*, and

(ii) in excavating, dewatering and other related works.

#### 4.2.2.4. Altered Subsurface Condition

(1) Where, during *construction*, the *soil*, *rock* or *groundwater* is found not to be of the type or in the condition used in design, and as indicated on the drawings, the design shall be reassessed by the *designer*.

(2) Where, during *construction*, climatic or any other conditions have changed the properties of the *soil*, *rock* or *groundwater*, the design shall be reassessed by the *designer*.

#### 4.2.3. Materials Used in Foundations

##### 4.2.3.1. Wood

(1) Wood used in *foundations* or in support of *soil* or *rock* shall conform with the appropriate requirements of Subsection 4.3.1.

##### 4.2.3.2. Preservation Treatment of Wood

(1) Wood exposed to *soil* or air above the lowest anticipated *groundwater* table shall be treated with preservative in conformance with CAN/CSA-O80-M, "Wood Preservation" and the requirements of the appropriate commodity standard as follows:

(a) CSA-O80.2-M, "Preservative Treatment of Lumber, Timber, Bridge Ties and Mine Ties by Pressure Processes",

(b) CSA-O80.3-M, "Preservative Treatment of Piles by Pressure Processes", or

(c) CSA-O80.15-M, "Preservative Treatment of Wood for Building Foundation Systems, Basements and Crawl Spaces by Pressure Processes".

(2) Where timber has been treated as required in Sentence (1), it shall be cared for as provided in AWWA Standard M4, "Care of Preservative Treated Wood Products" as revised by Clause 6 of CAN/CSA-O80, "Wood Preservation".

##### 4.2.3.3. Plain and Reinforced Masonry

(1) Plain or reinforced masonry used in *foundations* or in support of *soil* or *rock* shall conform with the requirements of Subsection 4.3.2.

##### 4.2.3.4. Prevention of Deterioration of Masonry

(1) Where plain or reinforced masonry in *foundations* or in structures supporting *soil* or *rock* may be subject to conditions conducive to deterioration, protection shall be provided to prevent such deterioration.

##### 4.2.3.5. Concrete

(1) Plain, reinforced or prestressed concrete used in *foundations* or in support of *soil* or *rock* shall conform with the requirements of Subsection 4.3.3.

##### 4.2.3.6. Chemical Attack of Concrete

(1) Where concrete in *foundations* may be subject to chemical attack, it shall be treated in conformance with the requirements in CAN3-A23.1, "Concrete Materials and Methods of Concrete Construction".

##### 4.2.3.7. Steel

(1) Steel used in *foundations* or in support of *soil* or *rock* shall conform with the appropriate requirements of Subsections 4.3.3. or 4.3.4., unless otherwise specified in this Section.



**4.2.3.8. Steel Piles**

(1) Where steel piles are used in *deep foundations* and act as permanent load-carrying members, the steel shall conform with one of the following standards:

- (a) CAN3-G40.21-M, "Structural Quality Steels",
- (b) ASTM A252, "Welded and Seamless Steel Pipe Piles",
- (c) ASTM A283/A283M, "Low and Intermediate Tensile Strength Carbon Steel Plates",
- (d) ASTM A570/A570M, "Steel, Sheet and Strip, Carbon, Hot-Rolled, Structural Quality", or
- (e) ASTM A611, "Steel Sheet, Carbon, Cold-Rolled Sheet, Structural Quality".

**4.2.3.9. High Strength Steel Tendons**

(1) Where high strength steel is used for tendons in anchor systems used for the permanent support of a *foundation* or in the erection of temporary support of *soil* or *rock* adjacent to an *excavation*, it shall conform with the requirements of CAN3-A23.1, "Concrete Materials and Methods of Concrete Construction".

**4.2.3.10. Corrosion of Steel**

(1) Where conditions are corrosive to steel, adequate protection of exposed steel shall be provided.

**4.2.4. Design Requirements****4.2.4.1. Design Basis**

(1) The design of *foundations*, *excavations* and *soil-* and *rock-retaining* structures shall be based on a *subsurface investigation* carried out by a person competent in this field of work, and one of the following:

- (a) application of generally accepted geotechnical and civil engineering principles by a person especially qualified in this field of work as provided in this Section and other Sections of Part 4,
- (b) established local practice where such practice includes successful experience both with *soils* and *rocks* of similar type and condition and with a *foundation* or *excavation* of similar type, *construction* method, size and depth, or
- (c) in situ testing of *foundation units* such as the load testing of *piles*, anchors or footings carried out by a person competent in this field of work.

**4.2.4.2. Subsurface Investigation**

(1) A *subsurface investigation* shall be carried out to the depth and extent to which the *building* or *excavation* will significantly change the stress in the *soil* or *rock*, or to such a depth and extent as to provide all the necessary information for the design and *construction* of the *excavation* or the *foundations*.

**4.2.4.3. Identification**

(1) The identification and classification of *soil*, *rock* and *groundwater* and descriptions of their engineering and physical properties shall be in accordance with a widely accepted system.

**4.2.4.4. Loads on Foundations**

(1) The *foundation* of a *building* shall be capable of resisting all loads as stipulated in Section 4.1., in accordance with limit states design in Subsection 4.1.3. or working stress design in Subsection 4.1.4.

**4.2.4.5. Differential Movements**

(1) The *foundation* of a *building* shall be proportioned so that the estimated total and differential movements of the *foundation* are not greater than the movements that the *building* is designed to accommodate.

**4.2.4.6. Depth of Foundations**

(1) Except as permitted in Sentence (2), the *bearing surface* of a *foundation* shall be below the level of potential damage, including damage resulting from *frost action*, and the *foundation* shall be designed to prevent damage resulting from *adfreezing* and frost jacking.

(2) The *bearing surface* of a *foundation* need not be below the level of potential damage from frost where the *foundation*

- (a) is designed against *frost action*, or
- (b) overlies material not susceptible to *frost action*.

**4.2.4.7. Sloping Ground**

(1) Where a *foundation* is to rest on, in or near sloping ground, this particular condition shall be provided for in the design.

**4.2.4.8. Eccentric and Inclined Loads**

(1) Where there is eccentricity or inclination of loading in *foundation units*, this effect shall be fully investigated and provided for in the design.

**4.2.4.9. Dynamic Loading**

(1) Where dynamic loading conditions apply, the effects shall be assessed by a special investigation of these conditions and provided for in the design.

**4.2.4.10. Hydrostatic Uplift**

(1) Where a *foundation* or any part of a *building* is subject to hydrostatic uplift the effects shall be provided for in the design.

**4.2.4.11. Groundwater Level Charge**

(1) Where proposed *construction* will result in a temporary or permanent change in the *groundwater level*, the effects of this change on adjacent property shall be fully investigated and provided for in the design.

**4.2.4.12. Permafrost**

(1) Where conditions of permafrost are encountered or proven to exist, the design of the *foundation* shall be based upon analysis of these conditions by a person especially qualified in that field of work.

**4.2.4.13. Swelling and Shrinking Soils**

(1) Where swelling or shrinking *soils*, in which movements resulting from moisture content changes may be sufficient to cause damage to a structure, are encountered or known to exist, such a condition shall be fully investigated and provided for in the design.

**4.2.4.14. Expanding and Deteriorating**

(1) Where *rock* which expands or deteriorates when subjected to unfavourable environmental conditions or to stress release is known to



exist such condition shall be fully investigated and provided for in the design.

#### 4.2.4.15. Construction on Fill

(1) *Buildings* may be placed on *fill* if it can be shown by *subsurface investigation* that

- (a) the *fill* is or can be made capable of safely supporting the *building*,
- (b) detrimental movement of the *building* or services leading to the *building* will not occur, and
- (c) explosive gases can be controlled or do not exist.

#### 4.2.4.16. Structural Design

(1) The structural design of the *foundation* of a *building*, the procedures and *construction* practices shall conform with the appropriate Sections of this Code unless otherwise specified in this Section.

### 4.2.5. Excavations

#### 4.2.5.1. Design of Excavations

(1) The design of *excavations* and of supports for the sides of *excavations* shall conform with the requirements of Subsection 4.2.4. and with this Subsection.

#### 4.2.5.2. Excavation Construction

(1) Every *excavation* shall be undertaken in such a manner as to prevent movement which would cause damage to adjacent property, existing structures, utilities, roads and sidewalks at all phases of *construction*.

(2) Material shall not be placed nor shall equipment be operated or placed in or adjacent to an *excavation* in a manner that may endanger the integrity of the *excavation* or its supports.

#### 4.2.5.3. Supported Excavations

(1) The sides of an *excavation* in *soil* or *rock* shall be supported by a retaining structure conforming with the requirements of Articles 4.2.5.1. and 4.2.5.2., except as permitted in Article 4.2.5.4.

#### 4.2.5.4. Unsupported Excavations

(1) The sides of an *excavation* in *soil* or *rock* may be unsupported where a design is prepared by a person especially qualified in this field of work in conformance with the requirements of Articles 4.2.5.1. and 4.2.5.2.

#### 4.2.5.5. Control of Water Around Excavations

(1) Surface water, all *groundwater*, *perched* and in particular *artesian groundwater* shall be kept under control at all phases of *excavation* and *construction*.

#### 4.2.5.6. Loss of Ground

(1) At all phases of *excavation* and *construction*, loss of ground due to water or any other cause shall be prevented.

#### 4.2.5.7. Protection and Maintenance at Excavations

(1) All sides of an *excavation*, supported and unsupported, shall be continuously maintained and protected from possible deterioration by *construction* activity or by the action of frost, rain and wind.

#### 4.2.5.8. Backfilling

(1) Where an *excavation* is backfilled, the backfill shall be placed so as to

- (a) provide lateral support to the *soil* adjacent to the *excavation*, and
- (b) prevent detrimental movements.

(2) The material used as backfill or *fill* supporting a footing, *foundation* or a floor on *grade* shall be of a type that is not subject to detrimental volume change with changes in moisture content and temperature.

### 4.2.6. Shallow Foundations

#### 4.2.6.1. Design of Shallow Foundations

(1) The design of *shallow foundations* shall be in conformance with Subsection 4.2.4. and the requirements of this Subsection.

#### 4.2.6.2. Support of Shallow Foundations

(1) Where a *shallow foundation* is to be placed on *soil* or *rock*, the *soil* or *rock* shall be cleaned of loose and unsound material and shall be adequate to support the *design load* taking into account temperature, precipitation, *construction* activities and other factors which may lead to changes of the properties of *soil* or *rock*.

#### 4.2.6.3. Incorrect Placement of Shallow Foundations

(1) Where a *shallow foundation unit* has not been placed or located as indicated on the drawings

- (a) the error shall be corrected, or
- (b) the design of the *foundation unit* shall be recalculated for the altered conditions by the *designer*.

#### 4.2.6.4. Damaged Shallow Foundations

(1) Where a *shallow foundation unit* is damaged

- (a) it shall be repaired, or
- (b) the *design* of the *foundation unit* shall be recalculated for the damaged condition by the *designer*.

### 4.2.7. Deep Foundations

#### 4.2.7.1. General

(1) A *deep foundation unit* shall provide support for a *building* by transferring loads by end-bearing to a competent stratum at considerable depth below the structure, or by mobilizing resistance by adhesion or friction, or both, in the *soil* or *rock* in which it is placed.

#### 4.2.7.2. Design for Deep Foundations

(1) *Deep foundation units* shall be designed in conformance with Subsection 4.2.4. and this Subsection.

(2) Where *deep foundation units* are load tested, as required in Clause 4.2.4.1.(1)(c), the determination of the number and type of load

test and the interpretation of the results shall be carried out by a person especially qualified in this field of work.

(3) Where *deep foundation units* are not load tested as outlined in Clause 4.2.4.1.(1)(c), and where well established local practice as outlined in Clause 4.2.4.1.(1)(b) is not applicable, the design shall be carried out in conformance with Clause 4.2.4.1.(1)(a).

(4) The design of *deep foundations* shall be determined on the basis of geotechnical considerations taking into account

- (a) the method of installation,
- (b) the degree of inspection,
- (c) the spacing of *foundation units* and group effects,
- (d) other requirements of this Subsection, and
- (e) the appropriate structural requirements of Section 4.1. and Subsections 4.3.1., 4.3.3. and 4.3.4.

(5) The portion of a *deep foundation unit* permanently in contact with *soil* or *rock* shall be structurally designed as a laterally supported compression member.

(6) The portion of a *deep foundation unit* which is not permanently in contact with *soil* or *rock* shall be structurally designed as a laterally unsupported compression member.

(7) The structural design of prefabricated *deep foundation units* shall allow for all stresses resulting from driving, handling and testing.

#### 4.2.7.3. Tolerance in Alignment and Location

(1) Permissible deviations from the design alignment and the location of the top of *deep foundation units* shall be determined by design analysis, and shall be indicated on the drawings.

#### 4.2.7.4. Incorrect Alignment and Location

(1) Where a *deep foundation unit* has not been placed within the permissible deviations referred to in Article 4.2.7.3., the condition of the *foundation* shall be assessed by the person responsible for the design, any necessary changes made and action taken as required.

#### 4.2.7.5. Installation of Deep Foundations

(1) *Deep foundation units* shall be installed in such a manner as not to impair

- (a) the strength of the *deep foundation units* and the properties of the *soil* or *rock* on or in which they are placed beyond the calculated or anticipated limits,
- (b) the integrity of previously installed *deep foundation units*, or
- (c) the integrity of neighbouring structures and services.

#### 4.2.7.6. Damaged Deep Foundation Units

(1) Where inspection shows that a *deep foundation unit* is damaged or not consistent with design or good engineering practice

- (a) such a unit shall be reassessed by the *designer*, and
- (b) any necessary changes shall be made and action taken as required.

### 4.2.8. Special Foundations

#### 4.2.8.1. General

(1) Where special *foundation* systems are used, such systems shall conform to Subsection 4.2.4.

#### 4.2.8.2. Use of Existing Foundations

(1) Existing *foundations* may be used to support new or altered *buildings* provided they comply with all pertinent requirements of this Section.

### Section 4.3. Design Requirements for Structural Materials

#### 4.3.1. Wood

##### 4.3.1.1. Design Basis for Wood

(1) *Buildings* and their structural members made of wood shall conform to CAN/CSA-O86.1-M, "Engineering Design in Wood (Limit States Design)".

##### 4.3.1.2. Glue-Laminated Members

(1) Glued-laminated members shall be fabricated in plants conforming to CAN/CSA-O177-M, "Qualification Code for Manufacturers of Structural Glued-Laminated Timber".

##### 4.3.1.3. Termites

(1) In areas known to be infested by termites, the requirements in Articles 9.3.2.9., 9.12.1.1. and 9.15.5.1. shall apply.

#### 4.3.2. Plain and Reinforced Masonry

##### 4.3.2.1. Design Basis for Plain and Reinforced Masonry

(1) *Buildings* and their structural members made of plain and reinforced masonry shall conform to

- (a) CAN3-S304-M, "Masonry Design for Buildings", or
- (b) CSA-S304.1, "Masonry Design for Buildings" (Limit States Design).

#### 4.3.3. Plain, Reinforced and Prestressed Concrete

##### 4.3.3.1. Design Basis for Plain, Reinforced and Prestressed Concrete

(1) *Buildings* and their structural members made of plain, reinforced or prestressed concrete shall conform to CAN/CSA-A23.3-M, "Design of Concrete Structures for Buildings".

#### 4.3.4. Steel

##### 4.3.4.1. Design Basis for Structural Steel

(1) *Buildings* and their structural members made of structural steel shall conform to CAN/CSA-S16.1-M, "Limit States Design of Steel Structures".

##### 4.3.4.2. Design Basis for Cold Formed Steel

(1) *Buildings* and their structural members made of cold formed steel shall conform to CAN/CSA-S136-M, "Cold Formed Steel Structural Members".

**4.3.5. Aluminum****4.3.5.1. Design Basis for Aluminum**

(1) *Buildings* and their structural members made of aluminum shall conform to CAN3-S157-M, "Strength Design in Aluminum".

**4.3.6. Glass****4.3.6.1. Design Basis for Glass**

(1) Glass shall be designed in conformance with CAN/CGSB-12.20-M, "Structural Design of Glass for Buildings".

**Section 4.4. Design Requirements for Special Structures****4.4.1. Air-Supported Structures****4.4.1.1. Design Basis for Air-Supported Structures**

(1) The structural design of *air-supported structures* shall conform to CAN3-S367-M, "Air-Supported Structures".

**4.4.2. Parking Structures****4.4.2.1. Design Basis for Parking Structures**

(1) Parking structures shall be designed in conformance with CSA-S413, "Parking Structures".

**4.4.3. Guards Over Retaining Walls****4.4.3.1. Guards Over Retaining Walls**

(1) Every retaining wall which is a designated structure in Subsection 2.1.2. shall be protected by *guards* on all open sides where the public has access to open space at the top of the retaining wall.

**Part 5****Wind, Water and Vapour Protection**

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**Part 5****Wind, Water and Vapour Protection****Section 5.1. General****5.1.1. Scope****5.1.1.1. Scope**

(1) The scope of this Part shall be as described in Section 2.1.

**5.1.2. Application****5.1.2.1. Separation of Environments**

(1) This Part applies to

(a) the control of condensation in and on, and the transfer of heat, air and moisture through *building* elements and interfaces between *building* elements that separate

(i) interior space from exterior space,

(ii) interior space from the ground, and

(iii) environmentally dissimilar interior spaces, and

(b) site conditions that may affect moisture loading on *building* elements that separate interior space from exterior space, and interior space from the ground.

**5.1.3. Definitions****5.1.3.1. Reserved****5.1.4. Environmental Separation Requirements****5.1.4.1. Resistance to Environmental Loads**

(1) *Building* components and assemblies that separate dissimilar environments shall

(a) be designed to have sufficient capacity and integrity to resist or accommodate the environmental loads and effects of those loads, having regard to

(i) the intended use of the *building*, and

(ii) the environment to which the components and assemblies are subject, and

(b) satisfy the requirements of this Part.

**5.1.4.2. Resistance to Deterioration**

(1) Except as provided in Sentence (2), materials that comprise *building* components and assemblies that separate dissimilar environments shall be

(a) compatible with adjoining materials, and

(b) resistant to any mechanisms of deterioration which would be reasonably expected, given the nature, function and exposure of the materials.



(2) Material compatibility and deterioration resistance are not required where it can be shown that incompatibility or uncontrolled deterioration will not adversely affect any of

- (a) the health or safety of *building* users,
- (b) the intended use of the *building*, or
- (c) the operation of *building* services.

### 5.1.5. Other Requirements

#### 5.1.5.1. Requirements in Other Parts of the Code

(1) Acoustical, structural and fire safety requirements shall comply with other Parts of the Code.

### Section 5.2. Loads and Procedures

#### 5.2.1. Environmental Loads

##### 5.2.1.1. Exterior Environmental Loads

(1) Except as provided in Sentences (2) and (3), climatic loads shall be determined according to Section 2.5.

(2) Except as provided in Sentence (3), below ground exterior environmental loads not described in Section 2.5. shall be determined from existing geological and hydrological data or from site tests.

(3) Where local design and construction practice has shown *soil* temperature analysis to be unnecessary, *soil* temperatures need not be determined.

##### 5.2.1.2. Interior Environmental Loads

(1) Interior environmental loads shall be derived from the intended use of the space.

#### 5.2.2. Procedures

##### 5.2.2.1. Calculations

(1) Heat, air and moisture transfer calculations shall conform to good engineering practice such as described in the ASHRAE Fundamentals Handbook 1993.

(2) For the purposes of any analysis conducted to indicate conformance to the thermal resistance levels required in Article 5.3.1.2., *soil* temperatures shall be determined based on annual average *soil* temperature, seasonal amplitude of variation and attenuation of variation with depth.

(3) Wind load calculations shall conform to Subsection 4.1.8.

### Section 5.3. Heat Transfer

#### 5.3.1. Thermal Resistance of Assemblies

##### 5.3.1.1. Required Resistance to Heat Transfer

(1) Except as provided in Sentence (2), where a *building* component or assembly will be subjected to an intended temperature differential, the component or assembly shall include materials to resist heat transfer in accordance with the remainder of this Subsection.

(2) The installation of materials to resist heat transfer in accordance with the remainder of this Subsection is not required where it can be shown that uncontrolled heat transfer will not adversely affect any of

- (a) the health or safety of *building* users,
- (b) the intended use of the *building*, or
- (c) the operation of *building* services.

##### 5.3.1.2. Properties to Resist Heat Transfer

(1) Materials and components installed to provide the required resistance to heat transfer shall provide sufficient resistance, for the interior and exterior design temperatures

- (a) to minimize surface condensation on the component or assembly,
- (b) in conjunction with other materials and components in the assembly, to minimize condensation within the component or assembly, and
- (c) in conjunction with systems installed for space conditioning, to meet the interior design thermal conditions for the intended *occupancy*.

(2) Except as provided in Sentence (3), where materials or components are installed to provide the required resistance to heat transfer and are covered in the scope of the standards listed below, the materials and components shall conform to the requirements of the respective standards

- (a) CAN/CGSB-12.8-M, "Insulating Glass Units",
- (b) CAN/CGSB-51.20-M, "Thermal Insulation, Polystyrene, Boards and Pipe Covering",
- (c) CGSB 51-GP-21M, "Thermal Insulation, Urethane and Isocyanurate, Unfaced",
- (d) CAN/CGSB-51.23, "Spray-Applied Rigid Polyurethane Cellular Plastic Thermal Insulation",
- (e) CAN/CGSB-51.25-M, "Thermal Insulation, Phenolic, Faced",
- (f) CAN/CGSB-52.26-M, "Thermal Insulation, Urethane and Isocyanurate, Boards, Faced",
- (g) CGSB 51-GP-27-M, "Thermal Insulation, Polystyrene, Loose Fill",
- (h) CGSB 51-GP-60-M, "Cellulose Fibre Loose Fill Thermal Insulation",
- (i) CAN/CGSB-82.1-M, "Sliding Doors",
- (j) CAN/CGSB-82.5-M, "Insulated Steel Doors",
- (k) CSA A101-M, "Thermal Insulation, Mineral Fibre, for Buildings", or
- (l) CAN/CSA-A247-M, "Insulating Fibreboard".

(3) The requirements for *flame-spread ratings* contained in the standards listed in Sentence (2) need be applied only as required in Part 3.

(4) Except as provided in Sentence (5), all metal-framed glazed assemblies separating interior *conditioned space* from interior unconditioned space or exterior space shall incorporate a thermal break to minimize condensation.

(5) Metal-framed glazed assemblies need not comply with Sentence (4) where these assemblies are

- (a) storm windows or doors, or
- (b) windows or doors which are required to have a *fire-resistance rating*.

### 5.3.1.3. Location and Installation of Materials Providing Thermal Resistance

(1) Where a material required by Article 5.3.1.1. is intersected by a *building* assembly, penetrated by a high conductance component or interrupted by expansion, control or construction joints, and where condensation is likely to occur at these intersections, penetrations or interruptions, materials providing thermal resistance shall be positioned so as to minimize condensation at these locations.

(2) Materials providing required thermal resistance shall have sufficient inherent resistance to air flow or be positioned in the assembly so as to prevent convection air flow through and around the material.

(3) Spray-in-place polyurethane insulation shall be installed in accordance with the requirements of CAN/CGSB-51.39, "Spray Application of Rigid Polyurethane Cellular Plastic Thermal Insulation for Building Construction".

## Section 5.4. Air Leakage

### 5.4.1. Air Barrier Systems

#### 5.4.1.1. Required Resistance to Air Leakage

(1) Except as provided in Sentence (2), where a *building* component or assembly separates interior *conditioned space* from exterior space, interior space from the ground, or environmentally dissimilar interior spaces, the component or assembly shall contain an *air barrier system*.

(2) An *air barrier system* is not required where it can be shown that uncontrolled air leakage will not adversely affect any of

- (a) the health or safety of *building* users,
- (b) the intended use of the *building*, or
- (c) the operation of *building* services.

#### 5.4.1.2. Air Barrier System Properties

(1) Except as provided in Sentence (2), sheet and panel type materials intended to provide the principal resistance to air leakage shall have an air leakage characteristic not greater than  $0.02 \text{ L}/(\text{s} \cdot \text{m}^2)$  measured at an air pressure difference of 75 Pa.

(2) The air leakage limit specified in Sentence (1) is permitted to be increased where it can be shown that the higher rate of leakage will not adversely affect any of

- (a) the health or safety of *building* users,
- (b) the intended use of the *building*, or
- (c) the operation of *building* services.

(3) Except as provided in Sentence (6), where components of the *air barrier system* are covered in the scope of the standards listed below, the components shall conform to the requirements of the respective standards

- (a) CAN/CGSB-63.14-M, "Plastic Skylights",

- (b) CAN/CGSB-82.1-M, "Sliding Doors",
- (c) CAN/CGSB-82.5-M, "Insulated Steel Doors", or
- (d) CAN/CSA-A440-M, "Windows".

(4) Skylights not covered in the scope of CAN/CGSB-63.14-M, "Plastic Skylights" shall conform to the performance requirements of that standard.

(5) Except as provided in Sentence (6), windows and sliding doors covered in the scope of CAN/CGSB-82.1-M, "Sliding Doors", and CAN/CSA-A440-M, "Windows", and installed as components in an *air barrier system* shall conform at least to the airtightness requirements in CAN/CSA-A440.1-M, "User Selection Guide to CAN/CSA-A440-M, Windows".

(6) Where a wired glass assembly is installed as a component in an *air barrier system* in a required *fire separation*, the assembly need not conform to CAN/CSA-A440-M, "Windows" or CAN/CSA-A440.1-M, "User Selection Guide to CAN/CSA-A440-M, Windows".

(7) The *air barrier system* shall be continuous

- (a) across construction, control and expansion joints,
- (b) across junctions between different *building* assemblies, and
- (c) around penetrations through the *building* assembly.

(8) An *air barrier system* installed in an assembly subject to wind load, and other elements of the separator that will be subject to wind load, shall transfer that load to the structure.

(9) Except as provided in Sentence (11), an *air barrier system* installed in an assembly subject to wind load shall be designed and constructed to resist 100 per cent of the specified wind load as determined in Subsection 4.1.8.

(10) Except as provided in Sentence (11), deflections of the *air barrier system* and other elements of the separator that will be subject to wind load shall not adversely affect non-structural elements at 1.5 times the specified wind load.

(11) Where it can be shown by test or analysis that an *air barrier system* installed in an assembly will be subject to less than 100 per cent of the specified wind load

- (a) the *air barrier system* is permitted to be designed and constructed to resist 1.5 times the lesser load, and
- (b) deflections of the *air barrier system* and other elements of the separator that will be subject to wind load shall not adversely affect non-structural elements at 1.5 times the lesser load.

## Section 5.5. Vapour Diffusion

### 5.5.1. Vapour Barriers

#### 5.5.1.1. Required Vapour Barrier

(1) Except as provided in Sentence (2), where a *building* component or assembly will be subjected to a temperature differential and a differential in water vapour pressure, the component or assembly shall include a *vapour barrier*.

(2) A *vapour barrier* is not required where it can be shown that uncontrolled vapour diffusion will not adversely affect any of

- (a) the health or safety of *building* users,



- (b) the intended use of the *building*, or
- (c) the operation of *building* services.

#### 5.5.1.2. Vapour Barrier Properties and Installation

(1) The *vapour barrier* shall have sufficiently low permeance and shall be positioned in the *building* component or assembly so as to

- (a) minimize moisture transfer by diffusion, to surfaces within the assembly that would be cold enough to cause condensation at the design temperature and humidity conditions, or
- (b) reduce moisture transfer by diffusion, to surfaces within the assembly that would be cold enough to cause condensation at the design temperature and humidity conditions, to a rate that will not allow sufficient accumulation of moisture to cause deterioration or otherwise adversely affect any of
  - (i) the health or safety of *building* users,
  - (ii) the intended use of the *building*, or
  - (iii) the operation of *building* services.

(2) Where materials installed to provide the required resistance to vapour diffusion are covered in the scope of the standards listed below, the materials shall conform to the requirements of the respective standards

- (a) CAN/CGSB-51.33-M, "Vapour Barrier Sheet, Excluding Polyethylene, for Use in Building Construction", and
- (b) CAN/CGSB-51.34-M, "Vapour Barrier, Polyethylene Sheet for Use in Building Construction".

(3) Coatings applied to gypsum wallboard to provide required resistance to vapour diffusion shall be shown to conform with the requirements of Sentence (1) when tested in accordance with CAN/CGSB-1.501-M, "Method for Permeance of Coated Wallboard".

(4) Coatings applied to materials other than gypsum wallboard to provide required resistance to vapour diffusion shall be shown to conform with the requirements of Sentence (1) when tested in accordance with ASTM E96, "Test Methods for Water Vapour Transmission of Materials" by the desiccant method (dry cup).

### Section 5.6. Precipitation

#### 5.6.1. Protection from Precipitation

##### 5.6.1.1. Required Protection from Precipitation

(1) Except as provided in Sentence (2), where a *building* component or assembly is exposed to precipitation, the component or assembly shall

- (a) minimize ingress of precipitation into the component or assembly, and
- (b) prevent ingress of precipitation into interior space.

(2) Protection from ingress of precipitation is not required where it can be shown that such ingress will not adversely affect any of

- (a) the health or safety of *building* users,
- (b) the intended use of the *building*, or

- (c) the operation of *building* services.

#### 5.6.1.2. Protective Material and Component Properties

(1) Where materials or components applied to sloped or horizontal assemblies are installed to provide required protection from precipitation and are covered in the scope of the standards listed below, the materials or components shall conform to the requirements of the respective standards

- (a) ASTM-D2178, "Asphalt Glass Felt Used in Roofing and Waterproofing",
- (b) CAN/CGSB-37.4-M, "Fibrated, Cutback Asphalt, Lap Cement for Asphalt Roofing",
- (c) CAN/CGSB-37.5-M, "Cutback Asphalt Plastic Cement",
- (d) CAN/CGSB-37.8-M, "Asphalt, Cutback, Filled, for Roof Coating",
- (e) CGSB 37-GP-9Ma, "Primer, Asphalt, Unfilled, for Asphalt Roofing, Dampproofing and Waterproofing",
- (f) CGSB 37-GP-21M, "Tar, Cutback, Fibrated, for Roof Coating",
- (g) CAN/CGSB-37.50-M, "Hot Applied, Rubberized Asphalt for Roofing and Waterproofing",
- (h) CGSB 37-GP-52M, "Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric",
- (i) CGSB 37-GP-54M, "Roofing and Waterproofing Membrane, Sheet Applied, Flexible, Polyvinyl Chloride",
- (j) CGSB 37-GP-56M, "Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing",
- (k) CGSB 37-GP-64M, "Mat Reinforcing, Fibrous Glass, for Membrane Waterproofing Systems and Built-Up Roofing",
- (l) CGSB 37-GP-6M, "Sheets, Thermosetting Polyester Plastics, Glass Fibre Reinforced",
- (m) CAN2-51.32-M, "Sheathing, Membrane, Breather Type",
- (n) CAN/CGSB-63.14-M, "Plastic Skylights",
- (o) CSA A123.1-M, "Asphalt Shingles Surfaced with Mineral Granules",
- (p) CSA A123.2-M, "Asphalt Coated Roofing Sheets",
- (q) CSA A123.3-M, "Asphalt or Tar Saturated Roofing Felt",
- (r) CSA A123.4-M, "Bitumen for Use in Construction of Built-up Roof Coverings and Dampproofing and Waterproofing Systems",
- (s) CSA A123.5-M, "Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules",
- (t) CSA A123.17, "Asphalt-Saturated Felted Glass-Fibre Mat for Use in Construction of Built-up Roofs",
- (u) CSA-A220.0-M, "Performance of Concrete Roof Tiles",
- (v) CSA-0118.1-M, "Western Red Cedar Shingles and Shakes" not less than No. 2 grade, or
- (w) CSA-0118.2-M, "Eastern White Cedar Shingles" not less than B grade.



(2) Skylights that are not covered in the scope of CAN/CGSB-63.14-M, "Plastic Skylights" shall conform to the performance requirements of that standard.

(3) Except as provided in Sentence (5), where materials or components applied to vertical assemblies are installed to provide required protection from precipitation and are covered in the scope of the standards listed below, the materials or components shall conform to the requirements of the respective standards

- (a) ASTM C212, "Structural Clay Facing Tile",
- (b) CAN/CGSB-11.3-M, "Hardboard" types 1, 2 or 5 when not factory finished,
- (c) CAN/CGSB-11.5-M, "Hardboard, Precoated, Factory-Finished, for Exterior Cladding",
- (d) CAN/CGSB-34.4-M, "Siding, Asbestos-Cement, Shingles and Clapboards",
- (e) CAN/CGSB-34.5-M, "Sheets, Asbestos-Cement, Corrugated",
- (f) CAN/CGSB-34.14-M, "Sheets, Asbestos-Cement, Decorative",
- (g) CAN/CGSB-34.16-M, "Sheets, Asbestos-Cement, Flat, Fully Compressed",
- (h) CAN/CGSB-34.17-M, "Sheets, Asbestos-Cement, Flat, Semi-Compressed",
- (i) CAN/CGSB-34.21-M, "Panels, Sandwich, Asbestos-Cement with Insulating Cores",
- (j) CGSB 41-GP-24Ma, "Siding, Soffits and Fascia, Rigid Vinyl",
- (k) CAN/CGSB-82.1-M, "Sliding Doors",
- (l) CAN/CGSB-82.5-M, "Insulated Steel Doors",
- (m) CAN/CGSB-93.1-M, "Sheet, Aluminum Alloy, Prefinished, Residential",
- (n) CAN/CGSB-93.2-M, "Prefinished Aluminum Siding, Soffits and Fascia for Residential Use",
- (o) CAN/CGSB-93.3-M, "Prefinished Galvanized and Aluminum-Zinc Alloy Steel Sheet for Residential Use",
- (p) CAN/CGSB-93.4-M, "Galvanized and Aluminum-Zinc Alloy Coated Steel Siding, Soffits and Fascia, Prefinished, Residential",
- (q) CSA-A371, "Masonry Construction for Buildings", Section 4,
- (r) CAN/CSA-A440-M, "Windows",
- (s) CSA O115-M, "Hardwood and Decorative Plywood",
- (t) CSA O118.1-M, "Western Red Cedar Shingles and Shakes" with shakes not less than No. 1 grade and shingles not less than No. 2 grade, except that No. 3 grade may be used for undercoursing,
- (u) CSA O118.2-M, "Eastern White Cedar Shingles" not less than B (clear) grade except that C grade may be used for undercoursing,
- (v) CSA O121-M, "Douglas Fir Plywood",
- (w) CSA O151-M, "Canadian Softwood Plywood",

(x) CSA O153, "Poplar Plywood",

(y) CAN/CSA-O325.0, "Construction Sheathing", or

(z) CAN/CSA-O437.0, "OSB and Waferboard".

(4) Except as provided in Sentence (5), windows and sliding doors exposed to the exterior and covered in the scope of CAN/CSA-A440-M, "Windows" or CAN/CGSB-82.1-M, "Sliding Doors" shall conform at least to the watertightness requirements in CAN/CSA-A440.1-M, "User Selection Guide to CAN/CSA-A440-M Windows".

(5) Where a wired glass assembly in a required *fire separation* is exposed to the exterior, the assembly need not conform to CAN/CSA-A440-M, "Windows" or CAN/CSA-A440.1-M, "User Selection Guide to CAN/CSA-A440-M Windows".

### 5.6.1.3. Installation of Protective Materials

(1) Where a material applied to a sloped or horizontal assembly is installed to provide required protection from precipitation and its installation is covered in the scope of one of the standards listed below, installation shall conform to the requirements of the respective standard

- (a) CAN/CGSB 37.51-M, "Application of Hot Applied Rubberized Asphalt for Roofing and Waterproofing",
- (b) CGSB 37-GP-55M, "Application of Sheet Applied Flexible Polyvinyl Chloride Roofing Membrane",
- (c) CAN3-A123.51-M, "Asphalt Shingle Application on Roof Slopes 1:3 and Steeper", or
- (d) CAN3-A123.52-M, "Asphalt Shingle Application on Roof Slopes 1:6 to less than 1:3".

(2) Protective materials applied to sloped or horizontal assemblies shall be installed to resist wind-uplift loads determined according to Subsection 4.1.8.

(3) Where masonry applied to vertical assemblies is installed to provide required protection from precipitation, installation shall conform to the requirements of CSA-A371, "Masonry Construction for Buildings".

(4) Where protective materials applied to assemblies are installed to provide required protection from precipitation, the materials shall be installed to shed precipitation or otherwise minimize its entry into the assembly and prevent its penetration through the assembly.

### 5.6.2. Sealing, Drainage, Accumulation and Disposal

#### 5.6.2.1. Sealing and Drainage

(1) Except as provided in Sentence (2), materials, components, assemblies, joints in materials, junctions between components and junctions between assemblies exposed to precipitation shall be

- (a) sealed to prevent ingress of precipitation, or
- (b) drained to direct precipitation to the exterior.

(2) Sealing or drainage are not required where it can be shown that the omission of sealing and drainage will not adversely affect any of

- (a) the health or safety of *building* users,
- (b) the intended use of the *building*, or
- (c) the operation of *building* services.

**5.6.2.2. Accumulation and Disposal**

(1) Where water, snow or ice can accumulate on a *building*, provision shall be made to minimize the likelihood of hazardous conditions arising from such accumulation.

(2) Where precipitation can accumulate on sloped or horizontal assemblies, provision shall be made for drainage conforming with Section 7.4.

(3) Where downspouts are provided and are not connected to a sewer, provisions shall be made to

- (a) divert the water from the *building*,
- (b) prevent *soil* erosion, and
- (c) minimize icing hazards.

(4) Junctions between vertical assemblies, and sloped or horizontal assemblies, shall be designed and constructed to minimize the flow of water from the sloped or horizontal assembly onto the vertical assembly.

**Section 5.7. Surface Water****5.7.1. Protection from Surface Water****5.7.1.1. Prevention of Accumulation and Ingress**

(1) Except as provided in Sentence (2), the *building* shall be located, the *building* site *graded*, catch basins installed, or *foundation* walls constructed so that surface water will not

- (a) accumulate against or enter into the *building*, or
- (b) damage moisture-susceptible materials.

(2) *Buildings* specifically designed to accommodate accumulation of water at the *building* or water ingress need not comply with Clause (1)(a).

**Section 5.8. Moisture in the Ground****5.8.1. Foundation and Floor Drainage****5.8.1.1. Required Drainage**

(1) Except where a wall or floor is subject to continuous hydrostatic pressure, or unless it can be shown to be unnecessary, the bottom of every exterior *foundation* wall and every floor-on-ground shall be provided with drainage.

**5.8.1.2. Drainage Materials and Installation**

(1) Drainage shall be designed and installed to accommodate the drainage load.

**5.8.2. Protection from Moisture in the Ground****5.8.2.1. Required Moisture Protection**

(1) Except as provided in Sentence (2), where a *building* element separates interior space from the ground, materials, components or assemblies shall be installed to prevent moisture transfer into the space.

(2) Materials, components or assemblies need not be installed to prevent moisture transfer from the ground where it can be shown that such transfer will not adversely affect any of

- (a) the health or safety of *building* users,
- (b) the intended use of the *building*, or
- (c) the operation of *building* services.

**5.8.2.2. Protective Material and Component Properties**

(1) Except where it can be shown that lesser protection will not lead to adverse conditions, or as provided in Article 5.8.2.3., materials and components installed to provide required moisture protection shall conform to the requirements of this Article.

(2) Except as provided in Sentence (3), materials installed to provide required moisture protection shall be capable of bridging

- (a) construction, control and expansion joints,
- (b) junctions between different *building* assemblies, and
- (c) junctions between *building* assemblies and elements penetrating *building* assemblies.

(3) Where the required moisture protection material is not capable of bridging construction, control and expansion joints, those joints shall be designed to maintain the continuity of the moisture protection.

(4) Moisture protection materials and components shall have sufficiently low water permeance to resist moisture loads.

(5) Moisture protection shall be designed and constructed to resist design hydrostatic pressures as determined in accordance with Section 4.2.

(6) Where materials installed to provide the required resistance to moisture transfer are covered in the scope of the standards listed below, the materials shall conform to the requirements of the respective standards

- (a) CAN/CGSB-37.2-M, "Emulsified Asphalt, Mineral Colloid Type, Unfilled, for Dampproofing and Waterproofing and for Roof Coatings",
- (b) CGSB 37-GP-9Ma, "Primer, Asphalt for Asphalt Roofing, Dampproofing and Waterproofing",
- (c) CAN/CGSB-37.16-M, "Filled Cutback Asphalt for Dampproofing and Waterproofing",
- (d) CAN/CGSB-37.50-M, "Hot Applied Rubberized Asphalt for Roofing and Waterproofing",
- (e) CGSB 37-GP-52M, "Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric",
- (f) CGSB 37-GP-54M, "Roofing and Waterproofing Membrane, Sheet Applied, Flexible, Polyvinyl Chloride",
- (g) CGSB 37-GP-56M, "Membrane, Modified, Bituminous, Prefabricated and Reinforced for Roofing", or
- (h) CSA A123.4-M, "Bitumen for Use in Construction of Built-up Roof Coverings and Dampproofing and Waterproofing Systems".

(7) Except as provided in Sentence (8), materials covered in the scope of the standards listed below shall not be installed to provide the required resistance to moisture transfer

- (a) CGSB 37-GP-6Ma, "Asphalt, Cutback, Unfilled for Damp-proofing", or

- (b) CGSB 37-GP-18Ma, "Tar, Cutback, Unfilled for Damp-proofing".

(8) Where the substrate is cast-in-place concrete, and a drainage layer is installed between the *building* assembly and the *soil*, and the assembly will not be subject to hydrostatic pressure

- (a) materials and components installed to provide the required resistance to moisture transfer need not conform with Sentences 5.8.2.2.(1) to (5), and

- (b) materials covered in the scope of

- (i) CGSB 37-GP-6Ma, "Asphalt, Cutback, Unfilled for Damp-proofing", or
- (ii) CGSB 37-GP-18Ma, "Tar, Cutback, Unfilled for Damp-proofing",

are permitted to be installed to provide the required resistance to moisture transfer where those materials conform to the requirements of the standards.

### 5.8.2.3. Installation of Moisture Protection

(1) Except as provided in Sentence (2), where materials are installed to provide the required resistance to moisture transfer and their installation is covered in the scope of the standards listed below, installation shall conform to the waterproofing requirements of the respective standards

- (a) CAN/CGSB-37.3-M, "Application of Emulsified Asphalts for Dampproofing or Waterproofing",
- (b) CGSB 37-GP-36M, "Application of Filled Cutback Asphalts for Dampproofing and Waterproofing",
- (c) CGSB 37-GP-37M, "Application of Hot Asphalt for Damp-proofing or Waterproofing", or
- (d) CAN/CGSB-37.51-M, "Application of Hot Applied Rubberized Asphalt for Roofing and Waterproofing".

(2) Where the substrate is cast-in-place concrete, and a drainage layer is installed between the *building* assembly and the *soil*, and the assembly will not be subject to hydrostatic pressure

- (a) materials and components installed to provide the required resistance to moisture transfer and whose installation is covered in the scope of the standards listed in Sentence (1), are permitted to be installed in conformance with the dampproofing requirements of the standards listed in Sentence (1), or
- (b) materials installed to provide the required resistance to moisture transfer and whose installation is covered in the scope of the standards listed below, shall be installed in conformance with the requirements of the respective standards:

- (i) CGSB 37-GP-12Ma, "Application of Unfilled Cutback Asphalt for Dampproofing", or
- (ii) CAN/CGSB 37.22-M, "Application of Unfilled Cutback Tar Foundation Coating for Dampproofing".

## Part 6 Heating, Ventilating and Air-Conditioning

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## Part 6 Heating, Ventilating and Air-Conditioning

### Section 6.1. General

#### 6.1.1. Application

##### 6.1.1.1. Scope

- (1) The scope of this Part shall be as described in Section 2.1.

(2) Where the method of operation of an existing heating, ventilating or *air-conditioning* system is altered, the repair, adjustment or component replacements that change the capacity or extent of safety of the system shall conform to this Code.

##### 6.1.1.2. Application

(1) This Part applies to systems and equipment for heating, ventilating and *air-conditioning* services.

#### 6.1.2. Definitions

##### 6.1.2.1. Reserved

#### 6.1.3. Plans and Specifications

##### 6.1.3.1. Reserved

### Section 6.2. Design and Installation

#### 6.2.1. General

##### 6.2.1.1. Good Engineering Practice

(1) Heating, ventilating and *air-conditioning* systems, including related mechanical refrigeration systems, shall be designed, constructed and installed to conform to good engineering practice appropriate to the circumstances such as described in

- (a) the ASHRAE Handbooks as follows:

- (i) 1993 Fundamentals,
- (ii) 1994 Refrigeration,
- (iii) 1995 HVAC Applications,
- (iv) 1996 HVAC Systems and Equipment, and



- (v) ASHRAE/IES 90.1-1989, "Energy Efficient Design of New Buildings Except Lowrise Residential Buildings",
- (b) the CAN/CSA-F280-M90, "Determining the Required Capacity of Residential Space Heating and Cooling Appliances", and the outside winter design temperatures shall conform to Subsection 2.5.1. of this Code,
- (c) the CAN/CSA-F326-M91, "Residential Mechanical Ventilation Requirements",
- (d) the NFPA Fire Codes (1996 Publication),
- (e) the HRAI Digest 1992,
- (f) the Hydronics Institute Manuals,
- (g) the SMACNA Manuals,
- (h) the Industrial Ventilation Manual, 22nd Edition 1995, published by the American Conference of Governmental Industrial Hygienists,
- (i) CAN/CSA-Z317.2, "Special Requirements for HVAC Systems in Health Care Facilities",
- (j) the Unified Canadian Guideline for Integrated (Combined) Heating Systems, and
- (k) the Model National Energy Code for Buildings, 1997.

#### 6.2.1.2. Design Indoor Air Temperatures

(1) *Buildings* classified as Group B, Division 2 or 3 *occupancies* or Group C *residential occupancies* that are intended for use in the winter months on a continuing basis shall be insulated and be equipped with heating facilities that are capable of maintaining an indoor air temperature of 22°C at the outside winter design temperature referred to in Article 6.2.1.8.

(2) All other *buildings* intended for occupancy in the winter months on a continuing basis should be insulated and shall be equipped with heating facilities to maintain a minimum indoor air temperature of 18°C or commensurate with the use of the *building* at the outside winter design temperature described in Article 6.2.1.8.

#### 6.2.1.3. Reserved

#### 6.2.1.4. Structural Movement

(1) Mechanical systems and equipment shall be designed and installed to accommodate the maximum relative structural movement provided for in the *construction* of the *building*.

#### 6.2.1.5. Installation Standards

(1) The installation of solid fuel-burning *appliances* for central heating systems shall comply with CAN/CSA-B365-M, "Installation Code for Solid Fuel-Burning Appliances and Equipment" and the manufacturer's installation instructions.

(2) The solid fuel-fired *appliances* in Sentence (1) shall conform to CAN/CSA-B366.1-M, "Solid Fuel-Fired Central Heating Appliances".

(3) The design and installation of ground and water source heat pumps shall conform to CAN/CSA-C445-M, "Design and Installation of Earth Energy Heat Pump Systems for Residential and Other Small Buildings" where

- (a) the maximum standard rated output is 35 kW per *dwelling unit* for residential applications, or
- (b) small *building* applications serve a heated floor space area not greater than 1 400 m<sup>2</sup>.

(4) The design and installation of ground and water source heat pumps shall conform to CAN/CSA-C447-M, "Design and Installation of Earth Energy Heat Pump Systems for Commercial and Institutional Buildings" where the heated floor space is greater than 1 400 m<sup>2</sup>.

(5) The design and installation of Solid fuel-burning *stoves, ranges* and *space heaters*, including the requirements for combustion air, shall conform to the requirements of CAN/CSA-B365-M, "Installation Code for Solid Fuel-Burning Appliances and Equipment" and the manufacturer's installation instructions.

#### 6.2.1.6. Fireplaces

- (1) Fireplaces shall conform to the requirements of Section 9.22.

#### 6.2.1.7. Heat Recovery Ventilators

(1) Except as provided in Sentence (2), heat recovery ventilators with rated capacities of not less than 25 L/s and not more than 200 L/s shall be installed in accordance with Article 9.32.3.11.

(2) Where *electric space heating*, other than forced-air electric heating system, is provided in *buildings* of *residential occupancy* within the scope of Part 9, the mechanical ventilation system shall include heat recovery ventilators designed to provide the greater of

- (a) the minimum rated efficiency required by the *Ontario Energy Efficiency Act*, or
- (b) a minimum 55% sensible heat recovery efficiency when tested to the low temperature thermal and ventilation performance test method set out in CAN/CSA-C439-M, "Standard Methods of Test for Rating the Performance of Heat Recovery Ventilators", at a Station 1 test temperature of -25°C at an air flow not less than 30 L/s.

#### 6.2.1.8. Outside Design Conditions

(1) The outside conditions to be used in designing heating, ventilating and *air-conditioning* systems shall be determined in conformance with Subsection 2.5.1.

#### 6.2.1.9. Installation—General

(1) Equipment requiring periodic maintenance and forming part of a heating, ventilating or *air-conditioning* system shall be installed with provision for access for inspection, maintenance, repair and cleaning.

(2) Mechanical equipment shall be protected with *guards* to prevent injury to the public or maintenance staff.

(3) Equipment forming part of a heating or *air-conditioning* system that may be adversely affected by freezing temperatures and that is located in an unheated area shall be protected from freezing.

#### 6.2.1.10. Expansion, Contraction and System Pressure

(1) Heating and cooling systems shall be designed to allow for expansion and contraction of the heat transfer fluid and to maintain the system pressure within the rated working pressure limits of all components of the system.

#### 6.2.1.11. Asbestos

(1) Asbestos shall not be used in air distribution systems or equipment in a form or in a location where asbestos fibres could enter the air supply or return systems.

**6.2.1.12. Access Openings**

(1) Any covering of an access opening through which a person could enter shall be openable from the inside without the use of keys where there is a possibility of the opening being accidentally closed while the system or equipment is being serviced.

**6.2.1.13. Combustible Tubing**

(1) *Combustible* tubing for pneumatic controls may be used in *buildings* required to be of *noncombustible construction* providing it has an outside diameter not exceeding 10 mm.

**6.2.2. Ventilation****6.2.2.1. Required Ventilation**

(1) Except as provided in Sentence (3), all rooms and spaces in *buildings* shall be ventilated in accordance with this Part.

(2) Except in *storage garages* and *repair garages* covered by Article 6.2.2.3., the rates at which outdoor air is supplied to rooms and spaces in *buildings* by ventilation systems shall be not less than the rates required by ASHRAE Standard 62, "Ventilation for Acceptable Indoor Air Quality".

(3) Self-contained mechanical ventilation systems, serving only one *dwelling unit* which conform to the requirements of Subsection 9.32.3. shall be considered to satisfy the requirements of this Article.

(4) *Live/work units* shall be mechanically ventilated in accordance with the requirement of Sentence (1).

**6.2.2.2. Natural Ventilation**

(1) The ventilation required by Article 6.2.2.1. shall be provided by mechanical ventilation except that it can be provided by natural ventilation or a combination of natural and mechanical ventilation in

- (a) *buildings* of other than *residential occupancy* having an *occupant load* of not more than one person per 40 m<sup>2</sup> during normal use,
- (b) *buildings* of *industrial occupancy* where the nature of the process contained therein permits or requires the use of large openings in the *building envelope* even during the winter, or
- (c) seasonal *buildings* not intended to be occupied during the winter.

**6.2.2.3. Ventilation of Storage and Repair Garages**

(1) Except as provided in Sentences (4) and (6), an enclosed *storage garage* shall have a mechanical ventilation system designed to

- (a) limit the concentration of carbon monoxide to not more than 100 parts per million of air when measured between 900 mm and 1 200 mm from the floor, or
- (b) provide, during operating hours, a continuous supply of outdoor air at a rate of not less than 3.9 L/s for each square metre of floor area.

(2) Mechanical ventilation systems provided in accordance with Clause (1)(a) shall be controlled automatically by carbon monoxide monitoring devices, located so as to provide full protection throughout the *storage garage*.

(3) Mechanical ventilation systems provided in accordance with Sentence (1) shall be designed such that the pressure in the *storage garage* is less than the pressure in adjoining *buildings* of other *occupancy*, or in adjacent portions of the same *building* having a different *occupancy*.

(4) In *storage garages* subject to the requirements of Sentence (1), where motor vehicles are parked by mechanical means, the ventilation requirements may be reduced by one half.

(5) Except as provided in Sentence (6), ticket and attendant booths of *storage garages* shall be pressurized with a supply of outdoor air.

(6) The requirements of Sentences (1) to (5) shall not apply to *open-air storeys* in a *storage garage*.

(7) A *repair garage* shall have a mechanical ventilation system designed to limit the exposure of workers to carbon monoxide to below the time weighted average concentration of 35 parts per million for a normal 8 hour workday or 40 hour work week.

(8) In a *repair garage*, when a repair bay is not immediately adjacent to an outside garage door opening, a system capable of providing continuous general ventilation of not less than 700 L/s per internal bay shall be provided.

(9) The general ventilation system described in Sentence (8) shall be designed to

- (a) operate continuously, or
- (b) be controlled automatically by carbon monoxide monitoring devices, located so as to provide full protection throughout the *repair garage*.

(10) The general ventilation system described in Sentence (8) is not required when tail pipes of vehicles are directly connected to local mechanical exhaust systems that terminate outdoors.

**6.2.2.4. Air Contaminants**

(1) Air contaminants released within *buildings* shall be removed insofar as possible at their points of origin and shall not be permitted to accumulate in concentrations greater than permitted in the Industrial Ventilation Manual published by the American Conference of Governmental Industrial Hygienists.

(2) Systems serving spaces that contain sources of contamination and systems serving other occupied parts of the *building* but located in or running through spaces that contain sources of contamination shall be designed in such a manner as to prevent spreading of such contamination to other occupied parts of the *building*.

(3) Heating, ventilating and *air-conditioning* systems shall be designed to minimize growth of micro-organisms according to good engineering practice as described in 6.2.1.1.(1).

(4) Mechanical rooms containing refrigeration equipment shall be ventilated in accordance with CSA B52-M, "Mechanical Refrigeration Code".

**6.2.2.5. Hazardous Gases, Dusts or Liquids**

(1) Systems serving spaces that contain hazardous gases, dusts or liquids shall be designed, constructed and installed in conformance with the provisions of the Ontario Fire Code made under the *Fire Marshals Act*, or in the absence of requirements pertinent to such systems in the Ontario Fire Code, to good engineering practice such as is described in the publications of the National Fire Protection Association and in the National Fire Code of Canada 1995.



**6.2.2.6. Commercial Cooking Equipment**

(1) All commercial cooking equipment shall be provided with ventilation systems designed, constructed and installed to conform to NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations", except as required by Sentence 3.6.3.1.(1) and Article 3.6.4.2.

**6.2.2.7. Crawl Spaces and Attic or Roof Spaces**

(1) Every crawl space and every *attic or roof space* shall be ventilated by natural or mechanical means.

**6.2.3. Air Duct Systems****6.2.3.1. Application**

(1) Except as provided in Sentence (2), the design, construction and installation of air duct distribution systems serving heating, ventilating and *air-conditioning* systems shall conform to this Subsection.

(2) The requirements of Subsection 6.2.4. apply to individual *dwelling units* for the design, construction and installation of air duct distribution systems which serve ventilating or *air-conditioning* systems or which serve heating systems in which the rated heat input does not exceed 120 kW.

**6.2.3.2. Materials in Air Duct Systems**

(1) Except as provided in Sentences (2) to (4) and in Article 3.6.4.3., all ducts, duct connectors, associated fittings and *plenums* used in air duct systems shall be constructed of steel, aluminum alloy, copper, clay, asbestos-cement or similar *noncombustible* material.

(2) Ducts, associated fittings and *plenums* are permitted to contain *combustible* material provided they

- (a) conform to the appropriate requirements for Class 1 duct materials in CAN/ULC-S110-M, "Standard Methods of Test for Air Ducts",
- (b) conform to Article 3.1.5.14. in a *building* required to be of *noncombustible construction*,
- (c) conform to Subsection 3.1.9.,
- (d) are not used in horizontal runs in a *building* required to be of *noncombustible construction*,
- (e) are not used in vertical runs serving more than 2 *storeys* in a *building* required to be of *noncombustible construction*, and
- (f) are not used in air duct systems in which the air temperature may exceed 120°C.

(3) Duct sealants shall have a *flame-spread rating* of not more than 25 and a smoke developed classification of not more than 50.

(4) Duct connectors that contain *combustible* materials and that are used between ducts and air outlet units shall

- (a) conform to the appropriate requirements for Class 1 air duct materials in CAN/ULC-S110-M, "Standard Methods of Test for Air Ducts",
- (b) be limited to 4 m in length,

(c) be used only in horizontal runs, and

(d) not penetrate required *fire separations*.

(5) Materials in Sentences (1) to (4) which when used in a location where they may be subjected to excessive moisture shall have no appreciable loss of strength when wet and shall be corrosion-resistant.

**6.2.3.3. Connections and Openings in Air Duct Systems**

(1) Air duct systems shall have

- (a) tight-fitting connections throughout, and
- (b) no openings other than those required for proper operation, inspection and maintenance of the system.

(2) Except for systems that serve one *dwelling unit* only, access openings shall be provided in duct systems where lint, grease, debris, paper or other combustible material may accumulate in *plenums* and ducts.

**6.2.3.4. Coverings, Linings, Adhesives and Insulation**

(1) Coverings, linings and associated adhesives and insulation of air ducts, *plenums* and other parts of air duct systems shall be of *noncombustible* material when exposed to heated air or radiation from heat sources that would result in the exposed surface exceeding a temperature of 120°C.

(2) When *combustible* coverings and linings, including associated adhesives and insulation, are used, they shall have a *flame-spread rating* of not more than 25 on any exposed surface or any surface that would be exposed by cutting through the material in any direction, and a smoke developed classification of not more than 50, except that the outer covering of ducts, *plenums* and other parts of air duct systems used within an assembly of *combustible construction* may have an exposed surface *flame-spread rating* of not more than 75 and may have a smoke developed classification greater than 50.

(3) *Combustible* coverings and linings in Sentence (2) shall not flame, glow, smoulder or smoke when tested in accordance with the method of test in ASTM C411, "Hot-Surface Performance of High-Temperature Thermal Insulation" at the maximum temperature to which the coverings and linings are to be exposed in service.

(4) Except as provided in Sentence (5), foamed plastic insulation shall not be used as part of an air duct or for insulating an air duct.

(5) Foamed plastic insulation may be used in a ceiling space that acts as a return air *plenum* provided the foamed plastic insulation is protected from exposure to the *plenum* in accordance with Article 3.1.5.11.

(6) *Combustible* coverings and linings of ducts, including associated adhesives and insulation, shall be interrupted at the immediate area of operation of heat sources in a duct system, such as electric resistance heaters or fuel-burning heaters or *furnaces*, and where the duct penetrates a *fire separation*.

(7) Linings of ducts shall be installed so that they will not interfere with the operation of volume or balancing dampers, *fire dampers*, *fire stop flaps* and other *closures*.

**6.2.3.5. Underground Ducts**

(1) Underground ducts shall be constructed to provide interior drainage from and access to all low points and shall not be connected directly to a sewer.



**6.2.3.6. Clearances**

(1) The clearances from *combustible* material and supply *plenums*, *supply ducts*, boots and register boxes of heating systems shall conform to the requirements of Subsection 6.2.4.

**6.2.3.7. Fire Dampers**

(1) *Fire dampers* shall conform to the requirements of Article 3.1.8.9.

**6.2.3.8. Smoke Detector Control**

(1) Air handling systems shall incorporate *smoke detector* control where required by Article 3.2.4.13.

**6.2.3.9. Exhaust Ducts and Outlets**

(1) Except as provided in Sentence (2), *exhaust ducts* of nonmechanical ventilating systems serving separate rooms or spaces shall not be combined.

(2) *Exhaust ducts* of nonmechanical ventilating systems serving similar *occupancies* may be combined immediately below the point of final delivery to the outside, such as at the base of a roof ventilator.

(3) *Exhaust ducts* of ventilating systems shall have provision for the removal of condensation where this may be a problem.

(4) Exhaust outlets shall be designed to prevent back draft under wind conditions.

(5) Except as permitted in Sentence (6), exhaust systems shall discharge directly to the outdoors.

(6) Exhaust systems are permitted to exhaust into a *storage garage* provided such systems serve rooms which

(a) are accessible only from the *storage garage*, and

(b) are not served by duct systems serving other parts of the *building*.

(7) *Exhaust ducts* connected to laundry drying equipment shall be independent of other *exhaust ducts*.

(8) Except as provided in Sentence (10) and except for self-contained systems serving individual *dwelling units*, *exhaust ducts* serving rooms containing water closets, urinals, basins, showers or slop sinks shall be independent of other *exhaust ducts*.

(9) Except as provided in Sentence (10) and except for self-contained systems serving individual *dwelling units*, *exhaust ducts* serving rooms containing residential cooking equipment shall be independent of other *exhaust ducts*.

(10) Two or more exhaust systems described in Sentences (8) and (9) may be interconnected or connected with *exhaust ducts* serving other areas of the *building* provided

(a) the connections are made at the inlet of an exhaust fan, and

(b) all interconnected systems are equipped with suitable back pressure devices to prevent passage of odours from one system to another when the fan is not in operation.

(11) Where *exhaust ducts* containing air from heated spaces pass through or are adjacent to unheated spaces, the ducts shall be insulated

to prevent moisture condensation in the ducts in accordance with Sentence 6.2.4.3.(10).

(12) Except for wash basins (lavatories), the exhaust air provided shall not be less than 24 L/s for each sanitary fixture listed in Sentence (8).

(13) Except for wash basins (lavatories), sanitary facilities in a food premises shall be mechanically ventilated and shall be capable of exhausting air at the rate of not less than 24 L/s for each sanitary fixture listed in Sentence (14).

(14) The mechanical ventilation described in Sentence (13) applies to rooms containing water closets, urinals, basins, showers or slop sinks.

**6.2.3.10. Interconnection of Systems**

(1) Except as provided in Sentence 6.2.3.9.(6), air duct systems serving *storage garages* shall not be interconnected with other parts of the *building*.

(2) In a *residential occupancy*, air from one *suite* shall not be circulated to any other *suite* nor to a *public corridor* or public stairway.

(3) Except for Sentence 3.3.1.4.(4) and Sentences (4) and (5), a *public corridor* or corridor serving the public shall not be used as a portion of a supply, return or exhaust air system serving adjoining areas, other than as part of a supply air system serving toilet rooms, bathrooms, shower rooms and similar auxiliary spaces opening directly to the *public corridor* or corridor used by the public.

(4) A *public corridor* may be used as part of an engineered smoke control system.

(5) Infiltration due to corridor pressurization is permitted into a *residential occupancy* from a *public corridor*.

**6.2.3.11. Ducts in Exit Stairways**

(1) Duct penetration of *fire separations* separating *exits* from the remainder of the *building* shall be in accordance with Article 3.4.4.4.

**6.2.3.12. Make-up Air**

(1) In ventilating systems that exhaust air to the outdoors, provision shall be made for the admission of a supply of make-up air in sufficient quantity so that the operation of the exhaust system and other exhaust equipment or combustion equipment is not adversely affected.

**6.2.3.13. Supply, Return, Intake and Exhaust Air Openings**

(1) Supply, return and exhaust air openings in rooms or spaces in *buildings* when located less than 2 m above the floor shall be protected by grilles having openings of a size that will not allow the passage of a 15 mm diameter sphere.

(2) *Combustible* grilles, diffusers and other devices for supply, return and exhaust air openings in rooms shall conform to the *flame-spread rating* and smoke developed classification requirements for the interior finish of the surface on which they are installed.

(3) Outdoor air intakes and exhaust outlets at the *building* exterior shall be designed or located so that the air entering the *building* system will not contain more contaminants than the normal exterior air of the locality in which the *building* is situated.

(4) Exterior openings for outdoor air intakes and exhaust outlets shall be shielded from the entry of snow and rain and shall be fitted with corrosion-resistant screens of mesh having openings not larger than

15 mm, except where experience has shown that climatic conditions require larger openings to avoid icing over of the screen openings.

(5) Screens required in Sentence (4) shall be accessible for maintenance.

#### 6.2.3.14. Filters and Odour Removal Equipment

(1) Air filters for air duct systems shall conform to the requirements for Class 2 air filter units as described in CAN4-S111, "Standard Method of Fire Tests For Air Filter Units".

(2) When electrostatic-type filters are used, they shall be installed so as to ensure that the electric circuit is automatically de-energized when filter access doors are opened and in *dwelling units* when the system circulating fan is not operating.

(3) When odour removal equipment of the adsorption type is used it shall be

- (a) installed to provide access so that adsorption material can be reactivated or renewed, and
- (b) protected from dust accumulation by air filters installed on the inlet side.

(4) Facilities for flushing and drainage shall be provided where filters are designed to be washed in place.

#### 6.2.3.15. Air Washers and Evaporative Cooling Sections or Towers

(1) The filter and water evaporation medium of every air washer and evaporative cooling section enclosed within a *building* shall be made of *noncombustible* material.

(2) Sumps for air washer and evaporative cooling sections shall be constructed and installed so that they can be flushed and drained.

(3) Evaporative cooling sections or towers of *combustible* material located on or outside *buildings* shall have a clearance of not less than 12 m from sources of ignition such as *chimneys* or incinerators when the tower exterior construction is *noncombustible*, and a clearance of not less than 30 m when the tower exterior construction is *combustible*.

(4) Evaporative cooling sections or towers, the main structure of which exceeds a volume of 55 m<sup>3</sup>, shall comply with the requirements of NFPA 214, "Water-Cooling Towers".

#### 6.2.3.16. Fans and Associated Air Handling Equipment

(1) Fans for heating, ventilating and *air-conditioning* systems shall be located and installed so that their operation

- (a) does not adversely affect the draft required for proper operation of fuel-fired *appliances*, and
- (b) does not allow the air in the air duct system to be contaminated by air or gases from the *boiler-room* or *furnace-room*.

(2) Fans and associated air handling equipment, such as air washers, filters and heating and cooling units, when installed on the roof or elsewhere outside the *building*, shall be of a type designed for outdoor use.

#### 6.2.3.17. Construction and Installation of Ducts and Plenums

(1) Rectangular panels in *plenums* and ducts more than 300 mm wide shall be shaped to provide sufficient stiffness.

(2) Where the installation of heating *supply ducts* in walls and floors creates a space between the duct and construction material, the space shall be fire stopped with *noncombustible* material at each end.

(3) Ducts shall be securely supported by metal hangers, straps, lugs or brackets, except that where zero clearance is permitted, wooden brackets may be used.

(4) All round duct joints shall be tight-fitting and lapped not less than 25 mm.

(5) Rectangular duct connections shall be made with S and drive cleats or equivalent mechanical connections.

(6) Trunk *supply ducts* shall not be nailed directly to wood members.

(7) Branch ducts shall be supported at suitable spacings to maintain alignment and prevent sagging.

(8) Ducts in or beneath concrete slabs-on-ground shall be watertight, corrosion-, decay- and mildew-resistant.

(9) Where a *supply* or *return duct* is not protected by an insulated exterior wall or where the duct is exposed to an unheated space it shall be insulated to prevent condensation.

#### 6.2.3.18. Connectors

(1) Vibration isolation connectors in air duct systems shall be *noncombustible*, except that *combustible* fabric connectors are permitted provided they

- (a) do not exceed 250 mm in length,
- (b) comply with the flame-resistance requirements of CAN/ULC-S109, "Standard for Flame Tests of Flame-Resistant Fabrics and Films", and
- (c) are not used in a location where they are exposed to heated air or radiation from heat sources that may cause the exposed surface to exceed a temperature of 120°C.

#### 6.2.3.19. Tape

(1) Tape used for sealing joints in air ducts, *plenums* and other parts of air duct systems shall meet the flame-resistance requirements for fabric in CAN/ULC-S109, "Standard for Flame Tests of Flame-Resistant Fabrics and Films".

#### 6.2.3.20. Return-Air System

(1) The return-air system shall be designed to handle the entire air supply.

(2) Where any part of a *return duct* will be exposed to radiation from the *furnace* heat exchanger or other radiating part within the *furnace*, such part of a *return duct* directly above or within 600 mm of the outside *furnace* casing shall be *noncombustible*.

(3) *Return ducts* serving solid fuel-fired *furnaces* shall be constructed of *noncombustible* material.

(4) Where *combustible return ducts* are permitted, they shall be lined with *noncombustible* material below floor registers, at the bottom of vertical ducts and under *furnaces* having a bottom return.

(5) The return-air system shall be designed so that the negative pressure from the circulating fan cannot affect the *furnace* combustion



air supply nor draw combustion products from joints or openings in the furnace or flue pipe.

(6) Return-air inlets shall not be installed in an enclosed room or crawl space that provides combustion air to a fuel-fired appliance.

6.2.4. Air Ducts for Low Capacity Systems

6.2.4.1. Application

(1) Except as provided in Sentence (2), the design, construction and installation of air duct distribution systems serving heating, ventilating and air-conditioning systems shall conform to Subsection 6.2.3.

(2) The requirements of this Subsection apply to individual dwelling units for the design, construction and installation of air duct distribution systems which serve ventilating or air-conditioning systems or which serve heating systems in which the rated heat input does not exceed 120 kW.

6.2.4.2. Duct Design

(1) Materials in supply ducts shall conform to Article 6.2.3.2.

(2) Galvanized steel or aluminum supply ducts shall conform to Table 6.2.4.2.

Table 6.2.4.2.

Minimum Metal Thickness of Ducts

Forming Part of Sentence 6.2.4.2.(2)

Type of Duct	Maximum Diameter, mm	Maximum Width or Depth, mm	Minimum metal thickness, mm	
			Duct Material	
			Galvanized Steel	Aluminum
Round ducts serving single dwelling units	125 or less	—	0.254	0.30
Round	350 over 350	—	0.33	0.30
		—	0.41	0.41
Rectangular, enclosed	—	350 over 350	0.33	0.30
			0.41	0.41
Rectangular, not enclosed, for single dwelling units, with required clearance up to 12 mm	—	350 over 350	0.33	0.41
			0.41	0.48
Rectangular, not enclosed, with required clearance of more than 12 mm	—	350 over 350	0.41	0.41
			0.48	0.48
Column 1	2	3	4	5

(3) The design of fitting for ducts shall conform to SMACNA, "HVAC Duct Construction Standards—Metal and Flexible", except that metal thickness shall conform to Table 6.2.4.2.

6.2.4.3. Construction and Installation of Ducts and Plenums

(1) Rectangular panels in plenums and ducts more than 300 mm wide shall be shaped to provide sufficient stiffness.

(2) Where the installation of heating supply ducts in walls and floors creates a space between the duct and construction material, the space shall be fire stopped with noncombustible material at each end.

(3) Ducts shall be securely supported by metal hangers, straps, lugs or brackets, except that where zero clearance is permitted, wooden brackets may be used.

(4) All round duct joints shall be tight-fitting and lapped not less than 25 mm.

(5) Rectangular duct connections shall be made with S and drive cleats or equivalent mechanical connections.

(6) Trunk supply ducts shall not be nailed directly to wood members.

(7) Branch ducts shall be supported at suitable spacings to maintain alignment and prevent sagging.

(8) Combustible ducts in concrete slabs-on-ground that are connected to a furnace supply plenum shall be located not closer than 600 mm to that plenum and not less than 600 mm from its connection to a riser or register.

(9) Ducts in or beneath concrete slabs-on-ground shall be watertight, corrosion-, decay- and mildew-resistant.

(10) Where a supply or return duct is not protected by an insulated exterior wall or where the duct is exposed to an unheated space it shall be insulated to provide a thermal resistance of not less than RSI 2.1.

6.2.4.4. Warm-Air Supply Outlets

(1) In a dwelling unit, a warm-air supply outlet shall be provided in each finished room which is located adjacent to unheated space, exterior air or exterior soil.

(2) Except as provided in Sentence (3), when a room described in Sentence (1) is located adjacent to exterior walls, such outlets shall be located so as to bathe not less than one exterior wall or window with warm air, except in bathrooms, utility rooms or kitchens, where this may not be practical.

(3) Where the heating system is also designed to provide ventilation air, ceiling outlets or outlets located high on interior walls may be installed provided the outlets are

(a) designed for this purpose, and

(b) installed with diffusers.

(4) Not less than one warm-air supply outlet shall be provided for each 40 m<sup>2</sup> of floor surface area in unfinished basements serving dwelling units, located so as to provide adequate distribution of warm air throughout the basement.

(5) Except for pipeless furnaces and floor furnaces, the capacity of warm-air supply outlets serving dwelling units shall be not less than the design heat loss from the area served and shall not exceed 3 kW per outlet.



(6) In *basements* and heated crawl spaces, the calculated heat gain from the *supply ducts* and *plenum* surfaces may be considered in calculating the design heat loss.

(7) Warm-air supply outlets located in finished areas shall be provided with diffusers and adjustable openings and shall not be located on a *furnace plenum*.

(8) The temperature of supply air at the warm-air supply outlets shall not exceed 70°C.

(9) Air duct systems serving *storage garages* shall not be interconnected with other parts of the *building*.

#### 6.2.4.5. Concrete Slabs-on-Ground

(1) Warm-air supply systems for *buildings* of *residential occupancy* built on concrete slabs-on-ground

(a) shall be installed in the slab, and

(b) shall be of the perimeter loop type or radial perimeter type.

#### 6.2.4.6. Adjustable Dampers and Balance Stops

(1) All branch *supply ducts* for residential systems shall be equipped with volume control dampers at the boot to permit balancing or shall be fitted with a diffuser incorporating an adjustable and lockable volume control device which can be set in a fixed position.

#### 6.2.4.7. Return-Air System

(1) The return-air system shall be designed to handle the entire air supply.

(2) Except as provided in Sentences (3) and (4), *return ducts* shall be constructed of material having a surface *flame-spread rating* of not more than 150.

(3) Where any part of a *return duct* will be exposed to radiation from the *furnace* heat exchanger or other radiating part within the *furnace*, such part of a *return duct* directly above or within 600 mm of the outside *furnace* casing shall be *noncombustible*.

(4) *Return ducts* serving solid fuel-fired *furnaces* shall be constructed of *noncombustible* material.

(5) *Combustible return ducts* shall be lined with *noncombustible* material below floor registers, at the bottom of vertical ducts and under *furnaces* having a bottom return.

(6) Spaces between studs and joists used as *return ducts* shall be separated from the unused portions of such spaces by tight-fitting metal stops or wood blocking.

(7) A vertical *return duct* shall have openings to return air on not more than 1 floor.

(8) A *public corridor* shall comply with Sentences 6.2.3.10.(3) and (4).

(9) The return-air system shall be designed so that the negative pressure from the circulating fan cannot affect the *furnace* combustion air supply nor draw combustion products from joints or openings in the *furnace* or *flue pipe*.

(10) Return-air from a *dwelling unit* shall not be recirculated to any other *dwelling unit*.

(11) Except for floor levels that are less than 900 mm above or below an adjacent floor level which is provided with a return-air inlet, at least one return-air inlet shall be provided in each floor level in a *dwelling unit*.

(12) Provision shall be made for the return of air from all rooms by leaving gaps beneath doors, using louvred doors or installing *return duct inlets*.

#### 6.2.4.8. Coverings, Linings and Insulation

(1) Foamed plastic insulation may be used in a ceiling space that acts as a return air *plenum* provided the foamed plastic insulation is protected from exposure to the *plenum* in accordance with Article 3.1.5.11.

(2) Linings of ducts shall be installed so that they will not interfere with the operation of volume or balancing dampers.

#### 6.2.4.9. Tape

(1) Tape used for sealing joints in air ducts, *plenums* and other parts of air duct systems shall meet the flame-resistance requirements for fabric in CAN/ULC-S109, "Standard for Flame Tests of Flame-Resistant Fabrics and Films".

#### 6.2.4.10. Clearances of Ducts and Plenums

(1) Where the *plenum* clearance is 75 mm or less, the clearance between a *supply duct* and *combustible* material shall

(a) be equal to the required *plenum* clearance within 450 mm of the *plenum*, and

(b) be not less than 12 mm at a distance of 450 mm or more from the *plenum*, except that this clearance may be reduced to zero beyond a bend or offset in the duct sufficiently large to shield the remainder of the duct from direct radiation from the *furnace* heat exchanger.

(2) Where the *plenum* clearance is more than 75 mm but not more than 150 mm, the clearance between a *supply duct* and *combustible* material shall

(a) be equal to the required *plenum* clearance within a horizontal distance of 1 800 mm of the *plenum*, and

(b) be not less than 12 mm at a horizontal distance of 1 800 mm or more from the *plenum*, except that this distance may be reduced to zero beyond a bend or offset in the duct sufficiently large to shield the remainder of the duct from direct radiation from the *furnace* heat exchanger.

(3) Where the *plenum* clearance is more than 150 mm, the clearance between a *supply duct* and *combustible* material shall

(a) be equal to the required *plenum* clearance within a horizontal distance of 1 000 mm of the *plenum*,

(b) be not less than 150 mm within a horizontal distance between 1 000 mm and 1 800 mm from the *plenum*, and

(c) be not less than 25 mm at a horizontal distance of 1 800 mm or more from the *plenum*, except that this distance may be reduced to 8 mm beyond a bend or offset in the duct sufficiently large to shield the remainder of the *supply duct* from direct radiation from the *furnace* heat exchanger.

(4) Where a register is installed in a floor directly over a pipeless *furnace*, a double-walled register box with not less than 100 mm between walls, or a register box with the warm-air passage completely

surrounded by the cold-air passage, shall be permitted in lieu of the clearances listed in Sentences (1), (2) and (3).

#### 6.2.4.11. Exhaust Ducts and Outlets

(1) Where an *exhaust duct* passes through or is adjacent to unheated space, the duct shall be insulated to prevent moisture or condensation in the duct.

(2) Exhaust outlets shall be designed to prevent back draft under wind conditions.

(3) *Exhaust ducts* directly connected to laundry drying equipment shall be independent of other *exhaust ducts*.

#### 6.2.4.12. Make-up Air

(1) In ventilating systems that exhaust air to the outdoors, provision shall be made for the admission of a supply of make-up air in sufficient quantity so that the operation of the exhaust system and other exhaust equipment or combustion equipment is not adversely affected.

(2) Except as provided in Sentence (3), when electric resistance heating is used to temper make-up air required in Sentence (1) in *buildings of residential occupancy* within the scope of Part 9, the energy rating for windows and sliding glass doors shall conform to the requirements of Article 9.25.2.7. and the minimum thermal resistance of insulation to be installed shall conform to Column 4 of Table 9.25.2.7.

(3) Sentence (2) does not apply where

(a) *electric space heating* is provided, or

(b) a heat recovery ventilator meeting the minimum rating requirements of Article 6.2.1.7. is installed.

#### 6.2.4.13. Supply, Return, Intake and Exhaust Air Openings

(1) Supply, return and exhaust air openings in rooms or spaces shall be protected by grilles having openings of a size that will not allow the passage of a 15 mm diameter sphere.

(2) Outdoor air intakes and exhaust outlets at the *building* exterior shall be designed or located so that the air entering the *building* system will not contain more contaminants than the normal exterior air.

(3) Exterior openings for outdoor air intakes and exhaust outlets shall be shielded from the entry of snow and rain and shall be fitted with corrosion-resistant screens of mesh not larger than 15 mm, except where climatic conditions may require larger openings.

(4) Screens required in Sentence (3) shall be accessible for maintenance.

#### 6.2.4.14. Air Filters and Equipment

(1) Air filters for air duct systems shall conform to the requirements for Class 2 air filter units as described in CAN4-S111-M, "Standard Method of Fire Tests For Air Filter Units".

(2) When electrostatic-type filters are used, they shall be installed so as to ensure that the electric circuit is automatically de-energized when filter access doors are opened or when the system circulating fan is not operating.

(3) When odour removal equipment of the adsorption type is used it shall be

(a) installed to provide access so that adsorption material can be reactivated or renewed, and

(b) protected from dust accumulation by air filters installed on the inlet side.

#### 6.2.5. Heating Appliances, General

##### 6.2.5.1. Location of Appliances

(1) Except for *appliances* installed in *dwelling units*, fuel-fired heating *appliances* shall be located, enclosed or separated from the remainder of the *building* in conformance with Section 3.6.

##### 6.2.5.2. Appliances Installed Outside the Building

(1) Fuel-fired *appliances* installed on the roof of a *building* or otherwise outside the *building* shall be

(a) designed for outdoor use,

(b) installed not less than 1 200 mm from the property line, measured horizontally, and

(c) installed not less than 3 m from an adjacent wall of the same *building* when such wall contains an opening or openings within 3 *storeys* above and 5 m horizontally from the *appliance*, unless such openings are protected by a *closure* assembly having a 45 min *fire-protection rating* determined in conformance with Article 3.1.8.4., or by wired glass conforming to Article 3.1.8.14.

#### 6.2.6. Incinerators

##### 6.2.6.1. Applicable Standard

(1) The design, construction, installation and *alteration* of every indoor incinerator shall conform to NFPA 82, "Incinerators, Waste and Linen Handling Systems and Equipment".

##### 6.2.6.2. Venting

(1) Every incinerator shall be served by a *chimney flue* conforming to Section 6.3.

#### 6.2.7. Unit Heaters

##### 6.2.7.1. Clearances

(1) Every *unit heater* using either steam or hot water as the heating medium shall be installed with a clearance of not less than 25 mm between the *appliance* and adjacent *combustible* material.

#### 6.2.8. Radiators and Convectors

##### 6.2.8.1. Lining or Backing

(1) Every steam or hot water radiator and convector located in a recess or concealed space or attached to the face of a wall of *combustible construction* shall be provided with a *noncombustible* lining or backing.

#### 6.2.9. Piping for Heating and Cooling Systems

##### 6.2.9.1. Piping Materials and Installation

(1) Piping shall be made from materials designed to withstand the effects of temperatures and pressures that may occur in the system.

(2) Every pipe used in a heating or *air-conditioning* system shall be installed to allow for expansion and contraction due to temperature changes.



(3) Supports and anchors for piping in a heating or *air-conditioning* system shall be designed and installed to ensure that undue stress is not placed on the supporting structure.

#### 6.2.9.2. Insulation and Coverings

(1) Insulation and coverings on pipes shall be composed of material suitable for the operating temperature of the system to withstand deterioration from softening, melting, mildew and mould.

(2) Insulation and coverings on pipes in which the temperature of the fluid exceeds 120°C

(a) shall be made of *noncombustible* material, or

(b) shall not flame, glow, smoulder or smoke when tested in accordance with the method of test ASTM C411, "Hot-Surface Performance of High-Temperature Thermal Insulation", at the maximum temperature to which such insulation or covering is to be exposed in service.

(3) Except as provided in Sentence (7), where *combustible* insulation is used on piping in a *horizontal* or *vertical service space*, the insulation and coverings on such pipes shall have a *flame-spread rating* throughout the material of not more than 25 in *buildings* of *noncombustible construction* and not more than 75 in *buildings* of *combustible construction*.

(4) Except as provided in Sentence (7), insulation and coverings on piping located in rooms and spaces other than the *service spaces* described in Sentence (3) shall have a *flame-spread rating* of not more than that required for the interior finish for the ceiling of the room or space.

(5) Except as provided in Sentence (7), where *combustible* insulation and covering is used on piping in *buildings* described in Subsection 3.2.6., they shall have a smoke developed classification of not more than 100.

(6) Pipes that are exposed to human contact shall be insulated so that the exposed surface does not exceed 70°C.

(7) No *flame-spread rating* or smoke developed classification limitations are required where *combustible* insulation and coverings are used on piping when such piping is

- (a) located within a concealed space in a wall,
- (b) located in a floor slab, or
- (c) enclosed in a *noncombustible* raceway or conduit.

#### 6.2.9.3. Clearances

(1) Clearances between *combustible* material and bare pipes carrying steam or hot water shall conform to Table 6.2.9.3.

Table 6.2.9.3.

#### Clearance between Steam or Hot Water Pipes and Combustible Material

Forming Part of Sentence 6.2.9.3.(1)

Steam or Water Temperature, °C	Minimum Clearance, mm
up to 120	15
above 120	25
Column 1	2

#### 6.2.9.4. Surface Temperature

(1) The exposed surface temperature of a steam or hot water radiator shall not exceed 70°C unless precautions are taken to prevent human contact.

#### 6.2.9.5. Protection

(1) Where a pipe carrying steam or hot water at a temperature above 120°C passes through a *combustible* floor, ceiling or wall, the construction shall be protected by a sleeve of metal or other *noncombustible* material not less than 50 mm larger in diameter than the pipe.

(2) Unprotected steam or hot water pipes that pass through a storage space shall be covered with not less than 25 mm of *noncombustible* insulation to prevent direct contact with the material stored.

#### 6.2.9.6. Piping in Shafts

(1) Where piping for heating or *air-conditioning* systems is enclosed in a shaft, the requirements of Article 3.6.3.1. for shafts shall apply.

#### 6.2.10. Refrigerating Systems and Equipment for Air-Conditioning

##### 6.2.10.1. Cooling Units

(1) Where a cooling unit is combined with a fuel-fired *furnace* in the same duct system, the cooling unit shall be installed

- (a) in parallel with the heating *furnace*,
- (b) upstream of the *furnace* provided the *furnace* is designed for such application, or
- (c) downstream of the *furnace* provided the cooling unit is designed to prevent excessive temperature or pressure in the refrigeration system.

#### 6.2.11. Storage Bins

##### 6.2.11.1. Storage Bins

(1) Service pipes passing through a storage bin for solid fuel shall be protected or so located as to avoid damage to the pipes.

(2) Except for fuel-thawing pipes, every pipe designed to operate at a temperature of 50°C or above shall be located where fuel cannot be stored in contact with it.

(3) A storage bin for solid fuel shall not be located above a sewer opening or drain opening.

(4) Storage bins for solid fuel shall be designed and constructed so that the air temperature in the bin or the surface temperature of any part of the floor or walls is below 50°C.



**6.2.11.2. Ash Storage Bins**

(1) Every ash storage bin shall be constructed of *noncombustible* material and, where the bin is not covered, the ceiling of the room in which it is located shall be of *noncombustible* material.

(2) Every opening in an ash storage bin shall be protected by a tight-fitting metal door with metal frame securely fastened to the bin.

**Section 6.3. Chimneys and Venting Equipment****6.3.1. General****6.3.1.1. Requirement for Venting**

(1) Except as provided in Articles 6.3.1.2. and 6.3.1.3., the products of combustion from solid fuel-burning *appliances* shall be vented in conformance with the requirements in the applicable *appliance* installation standards listed in Article 6.2.1.5.

**6.3.1.2. Masonry or Concrete Chimneys**

(1) Rectangular *masonry or concrete chimneys* not more than 12 m in height shall conform to Part 9 if they serve *appliances* with a combined total rated heat output of 120 kW or less, or that serve fireplaces.

(2) *Masonry or concrete chimneys* other than those described in Sentence (1) shall be designed and installed in conformance with the appropriate requirements in NFPA 211, "Standard for Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances".

**6.3.1.3. Metal Smoke Stacks**

(1) Single wall metal smoke stacks shall be designed and installed in conformance with NFPA 211, "Standard for Chimneys, Fireplaces, Vents and Solid Fuel-Burning Appliances".

**6.3.1.4. Reserved****6.3.1.5. Access Ladders**

(1) Access ladders for *chimneys*, when provided, shall consist of steel or bronze rungs, built into the walls of the *chimneys*.

(2) Rungs for external ladders shall begin at not less than 2 500 mm from ground level.

## Part 7

### Plumbing

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## Part 7

### Plumbing

**Section 7.1. General****7.1.1. Scope****7.1.1.1. Scope**

(1) The scope of this Part shall be as described in Section 2.1.

**7.1.1.2. Industrial Systems**

(1) This Part does not apply to industrial process systems unless the industrial process system is interconnected with the *plumbing system*, in which case the interconnection shall be so designed and installed so that the *plumbing system* is protected against contamination or malfunction that may be caused by the industrial system.

**7.1.2. Application****7.1.2.1. Application**

(1) This Part applies to the design and *construction of plumbing*.

**7.1.2.2. Alteration or Repair**

(1) When an existing *building* is extended or subject to material alteration or repair, this Part is applicable

(a) to the design and *construction of plumbing* in the extensions and those parts of the *building* subject to material alteration and repair, and

(b) to *plumbing* which is adversely affected by the extension, alteration or repair.

**7.1.3. Definitions and Abbreviations****7.1.3.1. Reserved****7.1.3.2. Definitions In Italics**

(1) In this Part,

*Storey* means the interval between two successive floor levels including *mezzanine* floors that contain *plumbing* or between a floor level and roof.

**7.1.3.3. Abbreviations of Names and Organizations**

(1) Reserved

**7.1.3.4. Abbreviations of Words**

(1) Reserved

**7.1.4. Equivalents**

(1) Reserved

**7.1.5. Plumbing Facilities****7.1.5.1. Facilities Required**

(1) *Plumbing* facilities shall be provided in accordance with Subsection 3.7.4. and Section 9.31. of this Code.

**7.1.5.2. Floor Drains**

(1) Where gravity drainage to a *sanitary drainage system* is possible, a floor drain shall be installed in a basement forming part of a *dwelling unit*.

(2) Where gravity drainage to a *sanitary drainage system* is not possible, the floor drain required by Sentence (1) may be connected to a *storm drainage system*, dry well or drainage ditch provided it is located where it can receive only *clear water waste* or *storm sewage*.

(3) A floor drain shall be provided in a public laundry room, garbage room, incinerator room, *boiler* or heating room, serving more than one *dwelling unit*.

**7.1.6. Service Connections****7.1.6.1. Sanitary Drainage Systems**

(1) Every *sanitary drainage system* shall be connected to a public *sanitary sewer*, a public combined sewer or a *private sewage disposal system*.

(2) A combined *building drain* or a combined *building sewer* shall not be installed.

**7.1.6.2. Storm Drainage Systems**

(1) Every *storm drainage system* shall be connected to a public *storm sewage* works, a public combined *sewage* works or a designated storm water disposal location but shall not be connected to a *sanitary sewage* works.

**7.1.6.3. Water Distribution Systems**

(1) Except as provided in Sentence (2), every *water distribution system* shall be connected to a public watermain or if no public watermain is available to a *potable private water supply system*.

(2) Where a supply of *potable* water is unavailable or insufficient to supply water to a *plumbing system*, non-*potable* water may be used for the flushing of water closets, urinals or the priming of *traps*, and the piping conveying the non-*potable* water shall be installed in conformance with Section 7.7.

**7.1.6.4. Separate Services**

(1) Piping in any *building* shall be connected to the public services separately from piping of any other *building*, except that an ancillary *building* on the same property may be served by the same service.

(2) No *plumbing* serving a *dwelling unit* shall be installed under another unit of the *building* unless the piping is located in a tunnel, pipe corridor, common basement or parking garage, so that the piping is *accessible* for servicing and maintenance throughout its length without encroachment on any private living space, but this Sentence does not prevent *plumbing* serving a unit located above another unit from being installed in or under the lower unit.

**7.1.6.5. Private Sewers and Private Water Supply**

(1) *Private sewers* and *private water supply* pipes shall be installed according to the Guidelines for the Design of Sanitary Sewage Work Systems, Guidelines for the Design of Storm Sewers and Guidelines for the Design of Water Distribution Systems issued by the Environmental Approvals and Projects Engineering Branch of the Ministry of the Environment.

**7.1.7. Location of Fixtures****7.1.7.1. Lighting and Ventilation Requirements**

(1) *Plumbing fixtures* shall not be installed in a room that is not lighted and ventilated in accordance with the appropriate requirements in Parts 3 and 9.

**7.1.7.2. Accessibility**

(1) Every *fixture*, *plumbing appliance*, *interceptor*, *cleanout*, valve, device or piece of equipment shall be so located that it is readily *accessible* for use, cleaning and maintenance.

(2) Except for Eastern-Style toilets, where a water closet is installed in a washroom for *public use* it shall be of the elongated type and provided with a seat of the open front type.

## Section 7.2. Materials and Equipment

### 7.2.1. General

#### 7.2.1.1. Reserved

#### 7.2.1.2. Exposure of Materials

(1) Where unusual conditions exist such as excessively corrosive *soil* or water, only materials suited for use in such locations shall be used.

(2) Materials and equipment used in a *drainage system* where excessively corrosive wastes are present shall be suitable for the purpose.

#### 7.2.1.3. Restrictions on Re-Use

(1) Used materials and equipment, including *fixtures*, shall not be reused unless they meet the requirements of this Part for new materials and equipment and are otherwise satisfactory for their intended use.

(2) Materials and equipment that have been used for a purpose other than the distribution of *potable* water shall not be subsequently used in a *potable water system*.

#### 7.2.1.4. Identification and Certification

(1) Every length of pipe and every fitting shall have cast, stamped or indelibly marked on it the maker's name or mark and the weight or class or quality of the product, or it shall be marked in accordance with the relevant standard, and such markings shall be visible after installation.

(2) Where a component of a *plumbing system* is required by this Code to comply with a standard and the compliance is not certified by a testing agency accredited by the Standards Council of Canada for the testing of the component in question and, when an inspector requests proof of the compliance, proof of compliance shall be produced by the person proposing to install or have installed the component, and without such proof the component shall not be installed as a permanent part of any *plumbing system*.

(3) The lack of certification markings on a product or *plumbing* component shall be regarded as proof, in the absence of evidence to the contrary that no certification exists.

(4) If a component of a *plumbing system* is required to be certified to a standard, the certification shall be made by a testing agency accredited for that purpose by the Standards Council of Canada.

#### 7.2.1.5. Pipe or Piping

(1) Where the term pipe or piping and fittings is used, it shall also apply to tube or tubing and fittings unless otherwise stated.

#### 7.2.1.6. Withstanding Pressure

(1) Piping, fittings and joints used in pressure sewer, forcemain or sump pump discharge applications shall be capable of withstanding at least one and one-half times the maximum potential pressure.

### 7.2.2. Fixtures

#### 7.2.2.1. Surface Requirements

(1) Except for the area designed to be slip proof in such *fixtures*, every exposed area of a *fixture* shall have a smooth, hard corrosion-resistant surface that is free from flaws and blemishes that may interfere with cleaning.

#### 7.2.2.2. Reserved

#### 7.2.2.3. Showers

(1) Every shower receptor shall be constructed and arranged so that water cannot leak through the walls or floor.

(2) Not more than 6 shower heads shall be served by a single shower drain.

(3) Where two or more shower heads are served by a shower drain, the floor shall be sloped and the drain located so that water from one head cannot flow over the area that serves another head.

(4) Except for column showers, when a battery of shower heads is installed, the horizontal distance between two adjacent shower heads shall be at least 750 mm.

#### 7.2.2.4. Concealed Overflows

(1) A dishwashing sink and a food preparation sink shall not have concealed overflows.

#### 7.2.2.5. Lavatories

(1) A lavatory that does not have an overflow shall be equipped with a centre outlet waste fitting.

#### 7.2.2.6. Trough Urinals

(1) No trough urinal shall be used as part of a *plumbing system*.

### 7.2.3. Traps and Interceptors

#### 7.2.3.1. Traps

(1) Except as provided for in Sentence (2), every *trap* shall

(a) have a *trap seal depth* of at least 38 mm,

(b) be so designed that failure of the seal walls will cause exterior leakage, and

(c) have a water seal that does not depend on the action of moving parts.

(2) The *trap seal depth* on *fixtures* draining to an acid waste system shall be a minimum of 50 mm.

(3) Every *trap* that serves a lavatory, a sink or a laundry tray shall

(a) be provided with a *cleanout* plug of a minimum 3/4 in. size located at the lowest point of the *trap* and of the same material as the *trap*, except that a cast iron *trap* shall be provided with a brass *cleanout* plug, or

(b) be designed so that part of the *trap* can be completely removed by screwed connections for cleaning purposes.

(4) A bell *trap* or an S-*trap* shall not be installed in a *drainage system*.



(5) A *drum trap* shall not be installed in a *drainage system*.

(6) Except as permitted in Sentence (7), no *bottle trap* shall be used in a *plumbing system*.

(7) A *bottle trap* may be used on a laboratory sink or other *fixture* equipped with corrosion resistant fittings.

(8) No running *trap* shall be installed in a *plumbing system* unless an *accessible* handhole is provided for cleaning of the *trap*, and where the *trap* is too small to accommodate a handhole, a *cleanout* shall be provided.

#### 7.2.3.2. Interceptors

(1) Every *interceptor* shall be designed so that it can be readily cleaned.

(2) Every grease *interceptor* shall be designed so that it does not become air bound.

#### 7.2.3.3. Tubular Traps

(1) Tubular metal or plastic *traps* that conform to CAN/CSA-B125, "Plumbing Fittings" shall be used in *accessible* locations.

### 7.2.4. Pipe Fittings

#### 7.2.4.1. T and Cross Fittings

(1) A T fitting shall not be used in a *drainage system* except to connect a *vent pipe*.

(2) A cross fitting shall not be used in a *drainage system*.

#### 7.2.4.2. Sanitary T Fittings

(1) Reserved

(2) A double sanitary T fitting shall not be used to connect the *fixture drains* of two urinals where no *cleanout* fitting is provided above the connection.

(3) No pipe fitting, joint or connection that would tend to intercept solids or reduce the flow through a pipe by more than 10 per cent shall be used in a *plumbing system*.

#### 7.2.4.3. One-Quarter Bends

(1) A 1/4 bend of 4 in. *size* or less that has a centre-line radius that is less than the *size* of the pipe shall not be used to join two *soil* or *waste pipes*.

(2) A 1/4 bend of 4 in. *size* or less shall not be used on a horizontal *building drain*, a *branch* of the *building drain*, or *building sewer* except to change direction from horizontal to vertical.

#### 7.2.4.4. Fittings Restricted in Use

(1) No double Y, double TY, double T or double waste fitting shall be installed in a *nominally horizontal soil* or *waste pipe*.

#### 7.2.4.5. Assembled Pipe or Tubing

(1) Pipe or tubing assembled to comprise a standard drain waste and venting system shall be connected with drain, waste and vent fittings in conformance with Table 7.2.4.5.

Table 7.2.4.5.

Pipe Arrangement for DWV Fittings  
Forming Part of Sentence 7.2.4.5.(1)

Pipe Arrangement	Fittings											
	Acceptable	Type										
	①③⑤⑦											
	②④⑥⑧⑨											
	①③⑤⑦											
	③⑤⑦											
	④*⑥⑧⑨*											
	⑤⑦											
	<p>LEGEND (DWV BRANCH FITTINGS)</p> <p>Vent pipe -----</p> <p>Drainage pipe _____</p> <p>* Acceptable only if vertical run is of 3 inches size or larger and horizontal branches are of 1 1/4, 1 1/2 or 2 inches size</p>											
<table><tr><td>1. Straight T</td><td>6. Double Combination Y &amp; 1/2 Bend or Double Long Turn TY</td></tr><tr><td>2. Double T or Cross</td><td>7. Y</td></tr><tr><td>3. Sanitary T or Short Turn TY</td><td>8. Double Y</td></tr><tr><td>4. Double Sanitary T or Short Turn Double TY</td><td>9. Double Waste Fitting</td></tr><tr><td>5. Combination Y &amp; 1/2 Bend or Long Turn TY</td><td></td></tr></table>			1. Straight T	6. Double Combination Y & 1/2 Bend or Double Long Turn TY	2. Double T or Cross	7. Y	3. Sanitary T or Short Turn TY	8. Double Y	4. Double Sanitary T or Short Turn Double TY	9. Double Waste Fitting	5. Combination Y & 1/2 Bend or Long Turn TY	
1. Straight T	6. Double Combination Y & 1/2 Bend or Double Long Turn TY											
2. Double T or Cross	7. Y											
3. Sanitary T or Short Turn TY	8. Double Y											
4. Double Sanitary T or Short Turn Double TY	9. Double Waste Fitting											
5. Combination Y & 1/2 Bend or Long Turn TY												

**7.2.5. Non-Metallic Pipe and Fittings****7.2.5.1. Asbestos-Cement Drainage Pipe and Fittings**

(1) Except as provided in Sentence (2), asbestos-cement pipe and its fittings for use in a drain, waste or vent system shall conform to

- (a) CAN/CGSB-34.22, "Pipe, Asbestos-Cement, Drain", or
- (b) CSA B127.1, "Components for Use in Asbestos Cement Drain, Waste and Vent Systems".

(2) Asbestos-cement pipe and fittings used underground either outside a *building* or under a *building* shall conform to Sentence (1) or to

- (a) CAN/CGSB-34.9, "Pipe, Asbestos-Cement, Sewer",
- (b) CAN/CGSB-34.23, "Pipe, Asbestos-Cement, Sewer, House Connection", or
- (c) CSA B127.2, "Components for Use in Asbestos-Cement Building Sewer Systems".

**7.2.5.2. Reserved****7.2.5.3. Concrete Pipe and Fittings**

(1) Concrete pipe shall conform to CSA A257 Series, "Standards for Circular Concrete Pipe and Manholes".

(2) Reserved

(3) Joints with external elastomeric gaskets shall be made with corrosion resistant external band type flexible mechanical couplings that conform to CAN/CSA-B602, "Mechanical Couplings for Drain, Waste, and Vent Pipe and Sewer Pipe".

(4) Concrete fittings field fabricated from lengths of pipe shall not be used.

(5) Concrete pipe shall not be used above ground inside a *building*.

(6) Precast reinforced circular concrete manhole sections, catch basins and fittings shall conform to CAN/CSA-A257.4-M, "Precast Reinforced Circular Concrete Manhole Sections, Catch Basins, and Fittings".

**7.2.5.4. Vitrified Clay Pipe and Fittings**

(1) Vitrified clay pipe and fittings shall be certified to CSA A60.1, "Vitrified Clay Pipe".

(2) Couplings and joints for vitrified clay pipe shall be certified to CSA A60.3, "Vitrified Clay Pipe Joints".

(3) Vitrified clay pipe and fittings shall not be used except for an underground part of a *drainage system*.

**7.2.5.5. Polyethylene Water Pipe and Fittings**

(1) Polyethylene water pipe and fittings shall be certified to CAN/CSA-B137.1, "Polyethylene Pipe, Tubing and Fittings for Cold Water Pressure Services", Series 160, and shall have a rated working pressure of 1034 kPa or more.

(2) Except as permitted in Sentence (4), polyethylene water pipe or tube shall only be used in underground installations of cold water *distributing pipe*.

(3) Butt fusion fittings for polyethylene pipe shall conform to ASTM D3261, "Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing".

(4) Cross-linked polyethylene pressure pipe or tube and fittings used in above-ground or underground installations of water *distributing pipe* shall be certified to CAN/CSA-B137.5, "Cross-linked Polyethylene (PEX) Tubing Systems for Pressure Applications".

**7.2.5.6. PVC Pipe and Fittings**

(1) PVC water pipe, fittings and solvent cement shall be certified to CAN/CSA-B137.3, "Rigid Poly (Vinyl Chloride) (PVC) Pipe for Pressure Applications" or CAN/CSA-B137.2, "PVC Injection-Moulded Gasketed Fittings for Pressure Applications", and have a minimum pressure rating of 1034 kPa.

(2) PVC water pipe and fittings in Sentence (1) shall not be used in a *hot water system*.

**7.2.5.7. CPVC Pipe, Fittings and Solvent Cements**

(1) CPVC hot and cold water pipe, fittings and solvent cements shall be certified to CSA B137.6, "CPVC Pipe, Tubing and Fittings for Hot and Cold Water Distribution Systems".

(2) The design temperature and design pressure of a CPVC piping system shall conform to the Standard referenced in Sentence (1).

**7.2.5.8. Polybutylene Pipe and Fittings**

(1) Polybutylene pipe and its associated fittings shall be certified to CAN3-B137.8, "Polybutylene (PB) Piping for Pressure Applications".

(2) Polybutylene pipe and fittings shall not be used for a continuously circulating hot water line or the first metre of any branch off of the continuously circulating hot water line.

**7.2.5.9. Plastic Pipe, Fittings and Solvent Cement Used Underground**

(1) Plastic pipe, fittings and solvent cement used underground outside a *building* or under a *building* in a *drainage system* shall be certified to

- (a) CAN/CSA-B181.1, "ABS Drain, Waste, and Vent Pipe and Pipe Fittings",
- (b) CAN/CSA-B181.2, "PVC Drain, Waste, and Vent Pipe and Pipe Fittings",
- (c) CAN/CSA-B182.1, "Plastic Drain and Sewer Pipe and Pipe Fittings",
- (d) CAN/CSA-B182.2, "PVC Sewer Pipe and Fittings, (PSM Type)",
- (e) CAN/CSA-B182.4, "Profile (Ribbed) PVC Sewer Pipe and Fittings",
- (f) CAN/CSA-B182.6, "Profile Polyethylene Sewer Pipe and Fittings",
- (g) CAN/CSA-B137.2, "PVC Injection-Moulded Gasketed Fittings for Pressure Applications", or
- (h) CAN/CSA-B137.3, "Rigid Poly (Vinyl Chloride) (PVC) Pipe for Pressure Applications".

(2) Except as permitted in Clauses (g) and (h), plastic pipe used as described in Sentence (1) shall have a stiffness equal or greater than 320 kPa.



**7.2.5.10. Plastic Pipe, Fittings and Solvent Cement Used in Buildings**

(1) Plastic pipe, fittings and solvent cement used inside or under a *building* in a *sanitary drainage system* or *venting system* shall be certified to

- (a) CAN/CSA-B181.1, "ABS Drain, Waste, and Vent Pipe and Pipe Fittings", or
- (b) CAN/CSA-B181.2, "PVC Drain, Waste, and Vent Pipe and Pipe Fittings".

(2) Plastic pipe, fittings and solvent cement used inside a *building* in a *storm drainage system* shall be certified to

- (a) CAN/CSA-B181.1, "ABS Drain, Waste, and Vent Pipe and Pipe Fittings",
- (b) CAN/CSA-B181.2, "PVC Drain, Waste, and Vent Pipe and Pipe Fittings",
- (c) CAN/CSA-B182.1, "Plastic Drain and Sewer Pipe and Pipe Fittings", or
- (d) CAN/CSA-B182.2, "PVC Sewer Pipe and Fittings, (PSM Type)".

(3) Plastic pipe used as described in Sentence (2) shall have a pipe stiffness equal or greater than 320 kPa.

(4) Requirements for *combustible* piping in relation to fire safety shall conform to Articles 3.1.5.15., 3.1.9.4., 9.10.9.6. and 9.10.9.7. of this Code.

(5) Where *noncombustible* piping pierces a *fire separation* or a fire stop, the requirements for fire stopping of Subsection 3.1.9., Articles 9.10.9.6. and 9.10.15.4. shall apply.

**7.2.5.11. Transition Solvent Cement**

(1) Solvent cement for transition joints shall conform to

- (a) CAN/CSA-B181.1, "ABS Drain, Waste, and Vent Pipe and Pipe Fittings", or
- (b) CAN/CSA-B181.2, "PVC Drain, Waste, and Vent Pipe and Pipe Fittings".

(2) Transition solvent cement shall only be used for joining an ABS *plumbing system* to a PVC *plumbing system*.

**7.2.5.12. Polyethylene/Aluminum/Polyethylene Composite Pipe and Fittings**

(1) PE/AL/PE composite pipe and fittings used for *potable water systems* shall conform to CAN/CSA-B137.9, "Polyethylene/Aluminum/Polyethylene Composite Pressure Pipe Systems".

(2) PE/AL/PE pipe and fittings shall not be used in a hot *water system*.

**7.2.5.13. Crosslinked Polyethylene/Aluminum/Polyethylene Composite Pipe and Fittings**

(1) PEX/AL/PEX composite pipe and fittings used for *potable water systems* shall conform to CAN/CSA-B137.10, "Crosslinked Polyethy-

lene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe Systems".

**7.2.5.14. Polypropylene Pipe and Fittings**

(1) Polypropylene pipe and fittings used for hot and cold *potable water systems* shall conform to CSA-B137.11, "Polypropylene (PP-R) Pipe and Fittings for Pressure Applications".

**7.2.6. Ferrous Pipe and Fittings****7.2.6.1. Cast Iron Drainage and Vent Pipe and Fittings**

(1) Drainage piping, vent piping and fittings made of cast iron shall be certified to CSA B70, "Cast Iron Soil Pipe, Fittings and Means of Joining".

(2) Cast iron *soil pipe* and fittings shall not be used in a *water system*.

**7.2.6.2. Cast Iron Fittings for Asbestos-Cement Drainage Pipe**

(1) Cast iron fittings designed for use with asbestos-cement pipe for drainage purposes shall conform to the applicable requirements of CSA B127.1, "Components for Use in Asbestos Cement Drain, Waste and Vent Systems" or CSA B127.2, "Components for Use in Asbestos Cement Building Sewer Systems".

**7.2.6.3. Threaded Cast Iron Drainage Fittings**

(1) Threaded cast iron drainage fittings shall conform to ANSI B16.12, "Cast Iron Threaded Drainage Fittings".

(2) Threaded cast iron drainage fittings shall not be used in a *water system*.

**7.2.6.4. Cast Iron Water Pipe**

(1) Cast iron water pipes shall conform to ANSI/AWWA C151/A21.51, "Ductile-Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or Other Liquids".

(2) Cement mortar lining for cast iron water pipes shall conform to ANSI/AWWA C104/A21.4, "Cement-Mortar Lining for Ductile-Iron and Gray-Iron Pipe and Fittings for Water".

(3) Iron fittings for cast iron or ductile-iron water pipes shall conform to ANSI/AWWA C110/A21.10, "Ductile-Iron and Gray-Iron Fittings, 3-in. Through 48-in., for Water and Other Liquids".

(4) Rubber gasket joints for cast iron and ductile-iron pressure pipe for water piping shall conform to ANSI/AWWA C111/A21.11, "Rubber-Gasket Joints for Ductile-Iron and Gray-Iron Pressure Pipe and Fittings".

**7.2.6.5. Screwed Cast Iron Water Fittings**

(1) Screwed cast iron water fittings shall conform to ANSI B16.4, "Cast Iron Threaded Fittings (Classes 125 and 250)".

(2) Screwed cast iron water fittings used in a *water system* shall be cement-mortar lined or galvanized.

(3) Screwed cast iron water fittings shall not be used in a *drainage system*.

**7.2.6.6. Screwed Malleable Iron Water Fittings**

(1) Screwed malleable iron water fittings shall conform to ANSI B16.3, "Malleable Iron Threaded Fittings (Classes 150 and 300)".

(2) Screwed malleable iron water fittings used in a *water system* shall be cement-mortar lined or galvanized.

(3) Screwed malleable iron water fittings shall not be used in a *drainage system*.

#### 7.2.6.7. Steel Pipe

(1) Except as provided in Sentences (2) and (3), welded and seamless steel pipe shall not be used in a *plumbing system*.

(2) Galvanized steel pipe may be used in a *drainage system* or a *venting system* above ground inside a *building*.

(3) Galvanized steel pipe and fittings shall not be used in a *water distribution system* except

(a) in *buildings of industrial occupancy*, or

(b) for the repair of existing galvanized steel piping systems.

(4) Galvanized steel pipe and fittings shall conform to ASTM A53, "Pipe, Steel, Black and Hot Dipped, Zinc-Coated Welded and Seamless".

(5) Where galvanized steel pipe is used in a *drainage system*, it shall be used with drainage fittings.

(6) All steel pipe of 4 in. *size* and smaller shall be schedule 40 or heavier and fittings of less than 2 in. *size* shall be galvanized screw fittings.

#### 7.2.6.8. Corrugated Steel Pipe and Couplings

(1) Corrugated steel pipe and couplings shall be certified to CAN3-G401, "Corrugated Steel Pipe Products".

(2) Corrugated steel pipe shall only be used underground outside a *building* in a *storm drainage system*.

(3) Couplings for corrugated steel pipe shall be constructed so that when installed they shall

(a) maintain the pipe alignment,

(b) resist the separation of adjoining lengths of pipe,

(c) prevent root penetration, and

(d) prevent the infiltration of surrounding material.

#### 7.2.6.9. Sheet Metal Leaders

(1) A sheet metal *leader* shall not be used except above ground outside a *building*.

#### 7.2.7. Non-Ferrous Pipe and Fittings

##### 7.2.7.1. Copper and Brass Pipe

(1) Copper pipe shall conform to ASTM B42, "Seamless Copper Pipe, Standard Sizes".

(2) Brass pipe shall conform to ASTM B43, "Seamless Red Brass Pipe, Standard Sizes".

##### 7.2.7.2. Brass or Bronze Pipe Flanges and Flanged Fittings

(1) Brass or bronze pipe flanges and flanged fittings shall conform to ANSI B16.24, "Bronze Pipe Flanges and Flanged Fittings (Class 150 and 300)".

##### 7.2.7.3. Brass or Bronze Threaded Water Fittings

(1) Brass or bronze threaded water fittings shall conform to ANSI B16.15, "Cast Bronze Threaded Fittings (Classes 125 and 250)".

(2) Brass or bronze threaded water fittings shall not be used in a *drainage system*.

##### 7.2.7.4. Copper Tube

(1) Copper tube in a *plumbing system* shall

(a) be certified to ASTM B88, "Seamless Copper Water Tube", or

(b) comply with ASTM B306, "Copper Drainage Tube (DWV)".

(2) The use of copper tube shall conform to Table 7.2.7.4.

(3) Copper tube used in a *plumbing appliance* shall conform to

(a) ASTM B88 "Seamless Copper Water Tube", or

(b) ASTM B68 "Seamless Copper Tube".

Table 7.2.7.4.

#### Permitted Use of Copper Tube and Pipe

Forming Part of Sentence 7.2.7.4.(2)

Type of Copper Tube or Pipe	Water Distribution System		Building Sewer	Drainage System		Venting System	
	Under ground	Above ground		Under ground	Above ground	Under ground	Above ground
K&L hard	N	P	P	P	P	P	P
K&L soft	P	P	N	N	N	N	N
M hard	N	P	N	N	P	N	P
M soft	N	N	N	N	N	N	N
DWV	N	N	N	N	P	N	P
Column 1	2	3	4	5	6	7	8

Note to Table 7.2.7.4.:

P-Permitted N-Not Permitted

**7.2.7.5. Solder-Joint Drainage Fittings**

- (1) Solder-joint fittings for *drainage systems* shall conform to
  - (a) CSA B158.1, "Cast Brass Solder Joint Drainage, Waste and Vent Fittings", or
  - (b) ANSI B16.29, "Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings - DWV".

(2) Solder-joint fittings for *drainage systems* shall not be used in a *water system*.

**7.2.7.6. Solder-Joint Water Fittings**

(1) Except as provided in Sentence (2), solder-joint fittings for *water systems* shall conform to

- (a) ANSI B16.18, "Cast Copper Alloy Solder Joint Pressure Fittings", or
- (b) ANSI B16.22, "Wrought Copper and Copper Alloy Solder Joint Pressure Fittings".

(2) Solder-joint fittings for *water systems* not made by casting or the wrought process shall conform to the applicable requirements of ANSI B16.18, "Cast Copper Alloy Solder Joint Pressure Fittings".

**7.2.7.7. Flared-Joint Fittings for Copper Water Systems**

(1) Flared-joint fittings for copper tube *water systems* shall conform to ANSI B16.26, "Cast Copper Alloy Fittings for Flared Copper Tubes".

(2) Flared-joint fittings for copper tube *water systems* not made by casting shall conform to the applicable requirements of ANSI B16.26, "Cast Copper Alloy Fittings for Flared Copper Tubes".

**7.2.7.8. Lead Waste Pipe and Fittings**

(1) Lead *waste pipe* and fittings shall conform to CSA B67, "Lead Service Pipe, Waste Pipe, Traps, Bends and Accessories".

(2) When there is a change in *size* of a lead closet bend, the change shall be in the vertical section of the bend or made in such a manner that there shall be no retention of liquid in the bend.

(3) Lead *waste pipe* and fittings shall not be used in a *water system* or for a *building sewer*.

**7.2.7.9. Aluminum DWV Pipe and Components**

(1) Drainage piping and vent piping made of aluminum and its components shall be certified to CAN/CSA-B281, "Aluminum Drain, Waste, and Vent Pipe and Components".

(2) Aluminum DWV pipe shall not be used in *water systems*.

(3) Aluminum drain *waste* and *vent pipe* to be buried underground shall be protected by a factory applied coating in accordance with CAN/CSA-B281, "Aluminum Drain, Waste, and Vent Pipe and Components".

**7.2.8. Corrosion Resistant Materials****7.2.8.1. Pipe and Fittings**

(1) Pipes and fittings to be used for drainage and venting of acid and corrosive wastes shall conform to

- (a) ASTM A518M, "Specification for Corrosion-Resistant High-Silicon Iron Castings",
- (b) ASTM C1053, "Specification for Borosilicate Glass Pipe and Fittings for Drain, Waste, and Vent (DWV) Applications", or
- (c) CAN/CSA-B181.3, "Polyolefin Laboratory Drainage Systems".

**7.2.9. Jointing Materials****7.2.9.1. Cement Mortar**

(1) Cement mortar shall not be used for jointing.

**7.2.9.2. Wiping Solder and Caulking Lead**

(1) Wiping solder and caulking lead shall conform to CSA B67, "Lead Service Pipe, Waste Pipe, Traps, Bends and Accessories".

(2) Solders for solder joint fittings shall conform to ASTM B32, "Solder Metal" in accordance with the recommended use.

(3) Solders and fluxes having a lead content in excess of 0.2 per cent shall not be used in a *potable water system*.

**7.2.10. Miscellaneous Materials****7.2.10.1. Brass Floor Flanges**

(1) Brass floor flanges shall be certified to CSA B158.1, "Cast Brass Solder Joint Drainage, Waste and Vent Fittings".

(2) ABS floor flanges shall be certified to CAN/CSA-B181.1, "ABS Drain, Waste, and Vent Pipe and Pipe Fittings".

(3) PVC floor flanges shall be certified to CAN/CSA-B181.2, "PVC Drain, Waste, and Vent Pipe and Pipe Fittings".

(4) Cast iron, copper and aluminum floor flanges shall be suitable for the purpose.

**7.2.10.2. Brass Screws, Bolts, Nuts and Washers**

(1) Every screw, bolt, nut and washer shall be of brass or equally corrosion resistant material when used

- (a) to connect a water closet to a water closet flange,
- (b) to anchor the water closet flange to the floor,
- (c) to anchor the water closet to the floor, or
- (d) to hold *cleanout* covers or floor drain grates.

**7.2.10.3. Cleanout Fittings**

(1) Every plug, cap, nut or bolt that is intended to be removable from a ferrous fitting shall be of a non-ferrous material.

(2) A *cleanout* fitting that as a result of normal maintenance operations cannot withstand the physical stresses of removal and reinstallation or cannot ensure a gas-tight seal shall not be installed.



(3) A screw cap or test cap shall not be used as a *cleanout* plug or cover.

#### 7.2.10.4. Groove and Shoulder Type Mechanical Pipe Couplings

(1) Groove and shoulder type mechanical pipe couplings shall conform to CSA B242, "Groove and Shoulder Type Mechanical Pipe Couplings".

(2) Mechanical Couplings for DWV and Sewer Pipe shall be certified to CAN/CSA-B602, "Mechanical Couplings for Drain, Waste, and Vent Pipe and Sewer Pipe".

#### 7.2.10.5. Saddle Hubs

(1) Except as provided in Sentence (2), a saddle hub or fitting shall not be installed in *drainage systems, venting systems* or *water systems*.

(2) A saddle hub or saddle clamp may be installed in a *building drain* or *building sewer* of nominal diameter not less than eight inches and that is in service provided that the connecting *branch* is at least two pipe sizes smaller than the run of the *building drain* or *building sewer* to which it is connected.

#### 7.2.10.6. Supply and Waste Fittings

(1) Supply and waste fittings shall be certified to CAN/CSA-B125, "Plumbing Fittings".

#### 7.2.10.7. Shower Valves

(1) Except as provided for in Sentence (2), all shower valves shall be pressure balanced or thermostatic mixing valves, conforming to CAN/CSA-B125, "Plumbing Fittings".

(2) Pressure balanced or thermostatic mixing valves shall not be required for showers where the hot water supply for such showers are controlled by a master thermostatic mixing valve conforming to CAN/CSA-B125, "Plumbing Fittings".

(3) Pressure-balanced or thermostatic-mixing valves shall be

- (a) designed such that the outlet temperature does not exceed 49°C, or
- (b) equipped with high-limit stops which shall be adjusted to a maximum hot water setting of 49°C.

#### 7.2.10.8. Direct Flush Valves

(1) Every direct flush valve shall

- (a) open fully and close positively under service pressure,
- (b) complete its cycle of operation automatically,
- (c) be provided with a means of regulating the volume of water that it discharges, and
- (d) be provided with a *vacuum breaker* unless the *fixture* is designed so that *back-siphonage* cannot occur.

#### 7.2.10.9. Drinking Fountain Bubblers

(1) The orifice of every drinking fountain bubbler shall

- (a) be of the shielded type, and
- (b) direct the water upward to an angle of approximately 45°.

(2) Every drinking fountain bubbler shall include a means of regulating the flow to the orifice.

#### 7.2.10.10. Back-Siphonage Preventers and Backflow Preventers

(1) Except as provided in Sentence (2) *back-siphonage preventers* and *backflow preventers* shall be certified to

- (a) CAN/CSA-B64.0, "Definitions, General Requirements and Test Methods for Vacuum Breakers and Backflow Preventers",
- (b) CAN/CSA-B64.1.1, "Vacuum Breakers, Atmospheric Type (AVB)",
- (c) CAN/CSA-B64.1.2, "Vacuum Breakers, Pressure Type (PVB)",
- (d) CAN/CSA-B64.2, "Vacuum Breakers, Hose Connection Type (HCVB)",
- (e) CAN/CSA-B64.2.1, "Vacuum Breakers, Hose Connection Type (HCVB) with Manual Draining Feature,"
- (f) CAN/CSA-B64.2.2, "Vacuum Breakers, Hose Connection type (HCVB) with Automatic Draining Feature,"
- (g) CAN/CSA-B64.3, "Backflow Preventers, Dual Check Valve with Atmospheric Port Type (DCAP)",
- (h) CAN/CSA-B64.4, "Backflow Preventers, Reduced Pressure Principle Type (RP)",
- (i) CAN/CSA-B64.5, "Backflow Preventers, Double Check Valve Type (DCVA)",
- (j) CAN/CSA-B64.6, "Backflow Preventers, Dual Check Valve Type (DuC)",
- (k) CAN/CSA-B64.7, "Vacuum Breakers, Laboratory Faucet Type (LFVP)",
- (l) CAN/CSA-B64.8, "Backflow Preventers, Dual Check with Intermediate Vent Type (DuCV)", or
- (m) CAN/CSA-B64.10, "Backflow Prevention Devices - Selection, Installation, Maintenance and Field Testing".

(2) *Back-siphonage preventers* for tank type water closets shall be certified to CAN/CSA-B125, "Plumbing Fittings".

#### 7.2.10.11. Relief Valves

(1) Temperature relief, pressure relief, combined temperature and pressure relief and vacuum relief valves shall conform to CAN1-4.4, "Temperature, Pressure, Temperature and Pressure Relief Valves and Vacuum Relief Valves", or ANSI Z21.22, "Relief Valves and Automatic Gas Shut-off Devices for Hot Water Supply Systems".

#### 7.2.10.12. Reducing Valves

(1) Direct acting water pressure reducing valves for domestic water supply systems shall conform to CSA-B356, "Water Pressure Reducing Valves for Domestic Water Supply Systems".

#### 7.2.10.13. Solar Domestic Hot Water

(1) Equipment for solar heating of *potable* water shall conform to CAN/CSA-F379.1, "Solar Domestic Hot Water Systems (Liquid to Liquid Heat Transfer)".

**7.2.10.14. Vent Pipe Flashing**

(1) Flashing fabricated on-site for *vent pipes* shall be fabricated from

- (a) copper sheet at least 0.33 mm thick,
- (b) aluminum sheet at least 0.61 mm thick,
- (c) alloyed zinc sheet at least 0.35 mm thick,
- (d) lead sheet at least 2.16 mm thick,
- (e) galvanized steel sheet at least 0.41 mm thick, or
- (f) polychloroprene (neoprene) at least 2.89 mm thick.

(2) Prefabricated flashing for *vent pipes* shall be certified to CSA B272, "Prefabricated Self-Sealing Vent Flashings".

**7.2.11. Water Service Pipes and Fire Service Mains****7.2.11.1. Design, Construction, Installation and Testing**

(1) Except as provided in Articles 7.2.11.2., 7.2.11.3., 7.2.11.4. and 7.3.7.2, the design, construction, installation and testing of *fire service mains* and *water service pipe* combined with *fire service mains* shall be in conformance with NFPA 24, "Standard for the Installation of Private Fire Service Mains and Their Appurtenances".

**7.2.11.2. Certification or Conformance**

(1) *Water service pipes* and *fire service mains* shall be certified or conform to the standards for the materials listed in Table 7.2.11.2.

**7.2.11.3. Tracer Wire**

(1) Except as provided in Sentence (2), a 14 gauge TW solid copper light coloured plastic coated tracer wire shall be attached to every non-metallic *water service pipe* or *fire service main*.

(2) Where a *water service pipe* or *fire service main* is detectable without the tracer wire referenced in Sentence (1), the tracer wire may be omitted.

**7.2.11.4. Required Check Valve**

(1) Where a *water service pipe* or a *fire service main* is supplied by more than one *water works*, a *check valve* shall be installed at each *water works* connection.

Table 7.2.11.2.

**Water Service Pipe and Fire Service Main Materials**

Forming Part of Sentence 7.2.11.2.(1)

Material	Standard	Limitations
Polyethylene pipe and fittings	certified to CAN/CSA-B137.1, "Polyethylene Pipe, Tubing and Fittings for Cold Water Pressure Services"	Pipe and fittings must have a rated working pressure of 1034 kPa or more. Can only be used in underground installations.
Cross-linked polyethylene pressure pipe or tube and fittings	certified to CAN/CSA-B137.5, "Cross-linked Polyethylene (PEX) Tubing Systems for Pressure Applications"	
PVC pipe and fittings	certified to CAN/CSA-B137.3, "Rigid Poly (Vinyl Chloride) (PVC) Pipe for Pressure Applications", or certified to CAN/CSA-B137.2, "PVC Injection-Moulded Gasketed Fittings for Pressure Applications"	Pipe and fittings must have a rated working pressure of 1034 kPa or more
CPVC pipe and fittings	certified to CAN/CSA-B137.6, "CPVC Pipe, Tubing and Fittings for Hot and Cold Water Distribution Systems"	The design temperature and pressure shall conform to the requirements of the CSA B137.6, "CPVC Pipe, Tubing and Fittings for Hot and Cold Water Distribution Systems"
Polybutylene pipe and fittings	certified to CAN/CSA-B137.7, "Polybutylene (PB) Piping for Cold Water Distribution Systems"	Pipe must have an SDR of 11 or less
Cast iron water pipe	conform to ANSI/AWWA C151/A21.51, "Ductile-Iron Pipe, Centrifugally Cast in Metal Molds or Sand-Lined Molds, for Water or Other Liquids"	Pipe shall have a cement mortar lining conforming to ANSI/AWWA C104/A21.4, "Cement-Mortar Lining for Ductile-Iron and Gray-Iron Pipe and Fittings for Water"
Iron fittings for cast iron or ductile-iron water pipes	conform to ANSI/AWWA C110/A21.10, "Ductile-Iron and Gray-Iron Fittings, 3-in. Through 48 in., for Water and Other Liquids"	Pipe shall have a cement mortar lining conforming to ANSI/AWWA C104/A21.4, "Cement-Mortar Lining for Ductile-Iron and Gray-Iron Pipe and Fittings for Water"
Rubber gasket joints for cast iron and ductile-iron water pipes	conform to ANSI/AWWA C111/A21.11, "Rubber Gasket Joints for Ductile-Iron and Gray-Iron Pressure Pipe and Fittings"	
Screwed cast iron water fittings	conform to ANSI B16.4, "Cast Iron Threaded Fittings (Classes 125 and 250)"	Screwed cast iron water fittings shall be cement-mortar lined or galvanized
Type K soft copper tube	certified to ASTM B88, "Seamless Copper Water Tube"	
Solder-joint fittings for copper water systems	conform to ANSI B16.18, "Cast Copper Alloy Solder Joint Pressure Fittings", or conform to ANSI B16.22, "Wrought Copper and Copper Alloy Solder Joint Pressure Fittings"	Solder-joint fittings not made by casting or the wrought process shall conform to the applicable requirements of ANSI B16.18, "Cast Copper Alloy Solder Joint Pressure Fittings"
Flared-joint fittings for copper water systems	conform to ANSI B16.26, "Cast Copper Alloy Fittings for Flared Copper Tubes"	Flared-joint fittings not made by casting shall conform to ANSI B16.26, "Cast Copper Alloy Fittings for Flared Copper Tubes"
PE/AL/PE pipe and fittings	certified to CAN/CSA B137.9, "Polyethylene/Aluminum/Polyethylene Composite Pressure Pipe Systems"	
PEX/AL/PEX pipe and fittings	certified to CAN/CSA B137.10, "Crosslinked Polyethylene/ Aluminum/Crosslinked Polyethylene Composite Pressure Pipe Systems"	
Column 1	2	3

**Section 7.3. Piping****7.3.2. Construction and Use of Joints****7.3.1. Application****7.3.2.1. Caulked Lead Drainage Joints****7.3.1.1. Application**

(1) This Section applies to the *construction* and use of joints and connections, and the arrangement, protection, support and testing of piping.

(1) Every caulked lead drainage joint shall be firmly packed with oakum and tightly caulked with lead to a depth of at least 25 mm.

(2) No paint, varnish or other coating shall be applied on the lead until after the joint has been tested.



(3) Caulked lead drainage joints shall not be used except for cast iron pipe in a *drainage system* or *venting system*, or between such pipe, and

- (a) other ferrous pipe,
- (b) brass and copper pipe,
- (c) a caulking ferrule, or
- (d) a *trap standard*.

(4) A length of hub and spigot pipe and pipe fittings in a *drainage system* shall be installed with the hub at the upstream end.

#### 7.3.2.2. Wiped Joints

(1) Wiped joints shall not be used except for sheet lead or lead pipe, or between such pipe and copper pipe or a ferrule.

- (2) Every wiped joint in straight pipe shall
  - (a) be made of solder,
  - (b) have an exposed surface on each side of the joint at least 19 mm wide, and
  - (c) be at least 10 mm thick at the thickest part.

(3) Every wiped flanged joint shall be reinforced with a lead flange that is at least 19 mm wide.

#### 7.3.2.3. Screwed Joints

(1) In making a screwed joint the ends of the pipe shall be reamed or filed out to the *size* of the bore and all chips and cuttings shall be removed.

(2) No pipe-joint cement or paint shall be applied to the internal threads.

- (3) Aluminum DWV pipe shall not be used with a screwed joint.

#### 7.3.2.4. Solder Joints

(1) In making a soldered joint the surface to be soldered shall be cleaned bright and the joint shall be properly fluxed, made with solder and thoroughly cleaned of all residue.

- (2) Aluminum DWV pipe shall not be used with soldered joints.

#### 7.3.2.5. Flared Joints

(1) In making a flared joint the pipe shall be expanded with a proper flaring tool.

- (2) Flared joints shall not be used for hard (drawn) copper tube.

#### 7.3.2.6. Burned Lead Joints

(1) In making a burned lead joint the lead shall be lapped and fused to form a weld that is at least 1-1/2 times as thick as the wall of the pipe.

- (2) In lead pipe the width of the weld shall be at least
  - (a) 13 mm where the *size* of the pipe is less than 3 in.,
  - (b) 16 mm where the *size* of the pipe is 3 in., or

- (c) 19 mm where the *size* of the pipe is 4 in.

(3) In sheet lead the width of the weld shall be as specified in Table 7.3.2.6.

Table 7.3.2.6.

#### Minimum Permitted Width of Weld for Sheet Lead

Forming Part of Sentence 7.3.2.6.(3)

Weight of Sheet Lead, kg/m <sup>2</sup>	Minimum Width of Weld, mm
12.2 to 14.6	6
19.5 to 24.4	10
29.3 to 39.1	20
48.8 to 58.6	25
58.6 to 146.5	32
Column 1	2

#### 7.3.2.7. Mechanical Joints

(1) Mechanical joints shall be made with compounded elastomeric couplings or rings held by stainless steel or cast iron clamps or contained within a compression connection or groove and shoulder type mechanical coupling.

#### 7.3.2.8. Cold-Caulked Joints

(1) Cold-caulked joints shall not be used except for bell and spigot pipe in a *water system*, a *drainage system* or a *venting system*.

(2) The caulking compound used in cold-caulked joints shall be applied according to the manufacturer's directions.

(3) Every cold-caulked joint in a *drainage system* shall be firmly packed with oakum and tightly caulked with cold caulking compound to a depth of at least 25 mm.

(4) Every cold-caulked joint in a *water system* shall be made by tightly caulking the entire depth of the socket with caulking compound.

#### 7.3.3. Joints and Connections

##### 7.3.3.1. Drilled and Tapped Joints

(1) Except as provided in Sentences (2) to (4), no *water distributing pipe*, *drainage pipe* or fittings shall be drilled, tapped or swaged.

(2) A *water distributing pipe* may be drilled or tapped to provide for a mechanically extracted T in copper tubing of Type L or K provided that all branch connections shall be notched and dimpled to limit depth of insertion and conform to the inner contour of the main.

(3) A copper *water distributing pipe* of 1 in. *size* or larger may be mechanically swaged to permit the joining of other copper pipe of equal *size*.

- (4) A *drainage pipe* or fitting may be drilled or tapped

- (a) to provide for the connection of a *trap* seal primer line,
- (b) to connect a device designed to dispense germicidal or odour control chemicals or *trap* seal water to a floor drain downstream of a *vacuum breaker* or flush valve in a flush tube connected to a *sanitary unit*,
- (c) to provide a hole for a *branch* connection to a *drainage pipe*, where the *branch* connection is made with a saddle hub as

permitted by Article 7.2.10.5. and where the hole is drilled to provide a smooth clean hole of the required *size* and orientation, or

- (d) to provide for the connection of pipe or fittings to metal or rigid plastic pipe and fittings where the pipe or fittings are thick enough to be threaded or are bossed for tapping.

(5) No pipe adaption shall be made by the use of a bushing that leaves a square edge or shoulder on the inside of the pipe or fitting.

#### 7.3.3.2. Reserved

#### 7.3.3.3. Prohibition of Welding of Pipes and Fittings

- (1) Cast iron *soil pipe* and fittings shall not be welded.
- (2) Galvanized steel pipe and fittings shall not be welded.
- (3) Aluminum DWV pipe shall not be welded.

#### 7.3.3.4. Unions and Slip Joints

(1) Running thread and packing nut connections and unions with a gasket seal shall not be used downstream of a *trap weir* in a *drainage system* or in a *venting system*.

- (2) A slip joint shall not be used
  - (a) in a *venting system*, or
  - (b) in a *drainage system*, except to connect a *fixture trap* to a *fixture drain* in an *accessible* location.

#### 7.3.3.5. Increaser or Reducer

(1) Every connection between two pipes of different *size* shall be made with an increaser or a reducer fitting installed so that it will permit the system to be completely drained.

#### 7.3.3.6. Burned Lead Joints

- (1) Every joint in hard lead shall be made with a burned lead joint.

#### 7.3.3.7. Dissimilar Connections

(1) Adapters, connectors or mechanical joints used to join dissimilar materials shall be designed to accommodate the required transition.

#### 7.3.3.8. Connection of Roof Drain to Leader

(1) Every *roof drain* shall be securely connected to a *leader* and provision shall be made for expansion.

#### 7.3.3.9. Connection of Floor Outlet Fixtures

(1) Every pedestal urinal, floor-mounted water closet or *S-trap standard* shall be connected to a *fixture drain* by a floor flange, except that a cast iron *trap standard* may be caulked to a cast iron pipe.

(2) Except as provided in Sentence (3), every floor flange shall be of brass.

(3) Where cast iron or plastic pipe is used, a floor flange of the same material may be used.

(4) Every floor flange shall be securely set on a firm base and bolted to the *trap flange* of the *fixture*, and every joint shall be sealed with a natural rubber, synthetic rubber or asbestos graphite gasket, or with a closet setting compound.

(5) Where a lead water closet stub is used, the length of the stub below the floor flange shall be at least 75 mm.

#### 7.3.3.10. Expansion and Contraction

(1) The design and installation of every piping system shall, where necessary, include means to accommodate expansion and contraction of the piping system caused by temperature change or movement of the *soil*.

#### 7.3.3.11. Copper Tube

- (1) Types M and DWV copper tube shall not be bent.
- (2) Aluminum DWV pipe shall not be bent.
- (3) Bends in copper tubing of soft or bending temper shall be made with tools manufactured and sized for the purpose.

#### 7.3.3.12. Indirect Connections

(1) Where a *fixture* or device is *indirectly connected*, the connections shall be made by terminating the *fixture drain* above the *flood level rim* of a *directly connected fixture* to form an *air break*.

- (2) The size of the *air break* shall be at least 25 mm.

#### 7.3.4. Support of Piping

##### 7.3.4.1. Capability of Support

(1) Piping shall be provided with support that is capable of keeping the pipe in alignment and bearing the weight of the pipe and its contents.

(2) Every floor or wall mounted water closet bowl shall be securely attached to the floor or wall by means of a flange and shall be stable.

(3) Every wall mounted *fixture* shall be supported so that no strain is transmitted to the piping.

##### 7.3.4.2. Independence of Support

(1) Piping, *fixtures*, tanks or devices shall be supported independently of each other.

##### 7.3.4.3. Insulation of Support

(1) Where a hanger or support for copper tube or brass or copper pipe is of a material other than brass or copper, it shall be suitably separated and electrically insulated from the pipe to prevent galvanic action.

(2) Where a hanger or support for aluminum DWV pipe is of a metal other than aluminum, the hanger or support shall be suitably separated and electrically insulated from the pipe.

##### 7.3.4.4. Support for Vertical Piping

(1) Except as provided in Sentences (2) and (3), vertical piping shall be supported at its base and at the floor level of alternate *storeys* by metal rests, each of which can bear the weight of pipe that is between it and the metal rest above it.

- (2) The maximum spacing of supports shall be 7.5 m.

(3) The maximum spacing of supports for PE/AL/PE and PEX/AL/PEX composite pipe shall be 2 500 mm.

#### 7.3.4.5. Support for Horizontal Piping

(1) *Nominally horizontal* piping that is inside a *building* shall be braced to prevent swaying and buckling and to control the effects of thrust.

(2) *Nominally horizontal* piping shall be supported so that

(a) galvanized iron or steel pipe is supported at intervals not exceeding

(i) 3.75 m if the pipe *size* is 6 in. or more, and

(ii) 2 500 mm if the pipe *size* is less than 6 in.,

(b) lead pipe is supported throughout its length,

(c) cast iron pipe is supported

(i) at or adjacent to each hub or joint,

(ii) at intervals not exceeding 3 m, and

(iii) at intervals not exceeding 1 000 mm if the pipe has mechanical joints and the length of pipe between adjacent fittings is 300 mm or less,

(d) asbestos-cement pipe is supported

(i) at intervals not exceeding 2 000 mm or have two supports for every 4 m length of pipe, and

(ii) at intervals not exceeding 1 000 mm where the length of pipe between adjacent fittings is 300 mm or less,

(e) ABS or PVC plastic DWV pipe is supported

(i) at intervals not exceeding 1 200 mm,

(ii) at the ends of *branches*,

(iii) at changes of direction or elevation, and

(iv) if the pipe is a *fixture drain* that is more than 1 000 mm in length, as close as possible to the *trap*,

(f) plastic water pipe is supported at intervals not exceeding 1 000 mm,

(g) copper tube and copper and brass pipe is supported at intervals not exceeding

(i) 3 m if the tube or pipe is hard temper and larger than 1 in. in *size*,

(ii) 2 500 mm if the tube or pipe is hard temper and 1 in. in *size* or less, and

(iii) 2 500 mm if the tube is soft temper,

(h) aluminum DWV pipe is supported

(i) at intervals not greater than 3 m,

(ii) at both sides of all joints,

(iii) at all *branch* ends,

(iv) at all points where there is a change in direction, and

(v) as close to all *traps* as possible,

(i) supports and hangers for aluminum DWV pipe shall have a broad support base and shall be free of burrs and rough edges to prevent abrasion of the pipe,

(j) where joints in the piping are less rigid than the pipe, the support points shall be selected so as to minimize the shear and bending forces imposed on the joints,

(k) PE/AL/PE or PEX/AL/PEX composite pipe is supported at intervals not exceeding 1 m, and

(l) PP-R plastic pipe is supported

(i) at intervals not exceeding 1 000 mm

(ii) at the end of *branches*, and

(iii) at changes of direction and elevation.

(3) Where plastic pipe or a composite pipe incorporating a plastic component is installed

(a) the pipe shall be aligned without added strain on the piping,

(b) the pipe shall not be bent or pulled into position after being welded or joined, and

(c) hangers shall not compress, cut or abrade the pipe.

(4) Where hangers are used to support *nominally horizontal* piping they shall be

(a) metal rods of at least 9.5 mm diam. for pipe over 4 in. in *size*, and

(b) solid or perforated metal strap hangers for pipe 4 in. or less in *size*.

(5) Where a hanger is attached to concrete or masonry, it shall be fastened by metal or expansion-type plugs that are inserted or built into the concrete or masonry.

#### 7.3.4.6. Support for Underground Horizontal Piping

(1) Except as provided in Sentence (2), *nominally horizontal* piping that is underground shall be supported on a base that is firm and continuous under the whole of the pipe.

(2) *Nominally horizontal* piping installed underground that is not supported as described in Sentence (1) may be installed using hangers fixed to a foundation or structural slab provided that the hangers are capable of keeping the pipe in alignment and supporting the weight of the pipe, its contents and the fill over the pipe.

#### 7.3.4.7. Support for Vent Pipe Above a Roof

(1) Where a *vent pipe* terminates above the surface of a roof it shall be supported or braced to prevent misalignment.

#### 7.3.4.8. Compression Fittings

(1) No compression fitting connecting to plain end pipe or tube shall be used in a *plumbing system* unless the pipe or tube and fittings are sufficiently stayed, clamped, anchored or buttressed so as to prevent separation during normal service of the system allowing for surge pressures.



**7.3.4.9. Thrust Restraint of Water Service Pipes**

(1) Pipe clamps and tie-rods, thrust blocks, locked mechanical or push-on joints, mechanical joints utilizing set screw retainer glands, or other suitable means of thrust restraint shall be provided at each change of direction of a *water service pipe* 4 in. or more in size and at all tees, plugs, caps and bends.

(2) Backing for underground *water service pipes* shall be placed

(a) between undisturbed earth and the fitting to be restrained and shall be of sufficient bearing area to provide adequate resistance to the thrust to be encountered, and

(b) so that the joints will be *accessible* for inspection and repair.

(3) Concrete thrust blocks shall have a minimum compressive strength of not less than 10 MPa after 28 days.

(4) Thrust blocks shall not be used to restrain vertical pipe.

**7.3.5. Protection of Piping****7.3.5.1. Backfill of Pipe Trench**

(1) Where piping is installed underground, the backfill shall be carefully placed and tamped to a height of 300 mm over the top of the pipe and shall be free of stones, boulders, cinders and frozen earth.

**7.3.5.2. Protection of Non-Metallic Pipe**

(1) Where asbestos-cement drainage pipe or vitrified clay is located less than 600 mm below a basement floor and the floor is constructed of other than 75 mm or more of concrete, the pipe shall be protected by a 75 mm layer of concrete installed above the pipe.

**7.3.5.3. Isolation from Loads**

(1) Where piping passes through or under a wall, it shall be installed so that the wall does not bear on the pipe.

**7.3.5.4. Protection from Frost**

(1) Where piping may be exposed to freezing conditions it shall be protected from frost.

**7.3.5.5. Protection from Mechanical Damage**

(1) *Plumbing*, piping and equipment exposed to mechanical damage shall be protected.

**7.3.5.6. Spatial Separation**

(1) Except as permitted in Sentence (2), a buried *water service pipe* shall be separated from the *building drain*, *building sewer* and a *sewage system* subject to Part VIII of the *Environmental Protection Act*, by not less than 2 440 mm measured horizontally, of undisturbed or compacted earth.

(2) The *water service pipe* may be closer than 2 440 mm or be placed in the same trench with the *building drain* or *building sewer* if

(a) (i) the bottom of the *water service pipe* at all points is at least 500 mm above the top of the *building drain* or *building sewer*, and

(ii) when in a common trench with the *building drain* or *building sewer*, the *water service pipe* is placed on a shelf at one side of the common trench,

(b) the *water service pipe* is constructed of a single run of pipe with no joints or fittings between the street line or source of supply on the property and the inside face of the *building*, or

(c) the *building drain* or *building sewer* is constructed of piping which is pressure tested in accordance with Subsection 7.3.7. at 345 kPa.

(3) A buried *water service pipe* shall be constructed of a single run of pipe with no joints or fittings between the street line or source of supply on the property and the inside face of the *building* if the *water service pipe* is less than 15 m from

(a) a *sewage system* subject to Part VIII of the *Environmental Protection Act*, or

(b) a source of pollution other than a *sewage system* subject to Part VIII of the *Environmental Protection Act*.

**7.3.6. Testing of Drainage and Venting Systems****7.3.6.1. Tests and Inspection of Drainage or Venting Systems**

(1) Except in the case of an external *leader*, after a section of *drainage system* or a *venting system* has been roughed in, and before any *fixture* is installed or piping is covered, a water or an air test shall be conducted.

(2) Where a *chief building official* requires a final test, it shall be carried out after every *fixture* is installed and before any part of the *drainage system* or *venting system* is placed in operation.

(3) Where a prefabricated system is assembled off the *building* site in such a manner that it cannot be inspected and tested on site, off-site inspections and tests shall be conducted.

(4) Where a prefabricated system is installed as part of a *drainage system* and *venting system*, all other *plumbing* work shall be tested and inspected and a final test shall be carried out on the complete system.

(5) A ball test shall be carried out on a *sanitary building drain*, *sanitary building sewer*, *storm building drain* and a *storm building sewer* buried underground.

**7.3.6.2. Tests of Pipes in Drainage Systems**

(1) Every pipe in a *drainage system*, except an external *leader* or *fixture outlet pipe*, shall be capable of withstanding without leakage a water test, air test and final test.

**7.3.6.3. Tests of Venting Systems**

(1) Every *venting system* shall be capable of withstanding without leakage a water test, air test and final test.

**7.3.6.4. Water Tests**

(1) Where a water test is made it shall be applied to

(a) the system as a whole, or

(b) sections of the system, each of which is at least 3 m high and includes at least 1 500 mm of the section below.

(2) In making a water test

(a) every opening except the highest shall be tightly closed with a testing plug or a test cap, and

(b) the system or the section shall be kept filled with water for 15 min.

**7.3.6.5. Air Tests**

- (1) Where an air test is made
  - (a) every opening in the system shall be closed,
  - (b) air shall be forced into the system until a pressure of 35 kPa is created, and
  - (c) this pressure shall be maintained for 15 min without the addition of more air.

**7.3.6.6. Final Tests**

- (1) Where a final test is made
  - (a) every *trap* shall be filled with water,
  - (b) the bottom of the system being tested shall terminate at the *building trap*, test plug or cap,
  - (c) except as provided in Sentence (2), smoke from smoke-generating machines shall be forced into the system,
  - (d) when the smoke appears from all roof terminals they shall be closed, and
  - (e) a pressure equivalent to a 25 mm water column shall be maintained for 15 min without the addition of more smoke.

(2) The smoke referred to in Clauses 7.3.6.6.(1)(c) and (d) may be omitted provided the roof terminals are closed and the system is subjected to an air pressure equivalent to a 25 mm water column maintained for 15 min without the addition of more air.

**7.3.6.7. Ball Tests**

- (1) Where a ball test is made, a hard ball dense enough not to float shall be rolled through the pipe.
- (2) The diameter of the ball shall be not less than 50 mm where the size of the pipe is 4 in. or more.

**7.3.7. Testing of Potable Water Systems****7.3.7.1. Application of Tests**

- (1) After a section of a *potable water system* has been completed, and before it is placed in operation, a water test or an air test shall be conducted.
- (2) A test may be applied to each section of the system or to the system as a whole.
- (3) Where a prefabricated system is assembled off the *building site* in such a manner that it cannot be inspected and tested on site, off-site inspections and tests shall be conducted.
- (4) Where a prefabricated system is installed as part of a *water system*, all other *plumbing work* shall be tested and inspected, and the complete system shall be pressure tested.

**7.3.7.2. Tests of Potable Water Systems**

- (1) Every *potable water system* shall be capable of
  - (a) withstanding without leakage a water pressure that is at least 1000 kPa for at least 1 h, or

- (b) withstanding for at least 2 h without a drop in pressure an air pressure that is at least 700 kPa.

**7.3.7.3. Water Tests**

- (1) Where a water test is made all air shall be expelled from the system before *fixture* control valves or faucets are closed.
- (2) *Potable water* shall be used to test a *potable water system*.

**Section 7.4. Drainage Systems****7.4.1. Application****7.4.1.1. Application of Drainage Systems**

- (1) This Section applies to *sanitary drainage systems* and *storm drainage systems*.

**7.4.2. Connections to Drainage Systems****7.4.2.1. Connections to Sanitary Drainage Systems**

- (1) Every *fixture* shall be *directly connected* to a *sanitary drainage system*, except that
  - (a) drinking fountains may be
    - (i) *indirectly connected* to a *sanitary drainage system*, or
    - (ii) connected to a *storm drainage system* provided that where the system is subject to *backflow*, a *check valve* is installed in the fountain waste pipe,
  - (b) laundry *plumbing appliances* may be *indirectly connected* to a *sanitary drainage system*,
  - (c) *fixtures* or *plumbing appliances*, other than floor drains, except as provided in Sentence 7.1.5.2.(2), that discharge only *clear water waste* may be connected to a *storm drainage system*,
  - (d) the following devices shall be *indirectly connected* to a *drainage system*
    - (i) a device for the display, storage, preparation or processing of food or drink,
    - (ii) a sterilizer,
    - (iii) a device that uses water as a cooling or heating medium,
    - (iv) a water operated device,
    - (v) a water treatment device,
    - (vi) a drain or overflow from a *water system* or a heating system, or
    - (vii) a drain line from a HVAC system or equipment,
  - (e) *fixtures* that have a hydraulic load totaling not more than 1-1/2 *fixture units* may be connected to a vertical section of a *circuit vent* provided
    - (i) the *fixtures* are located in the same *storey* as the *fixtures* served by the *vent pipes*,
    - (ii) not more than 2 *fixtures* are connected to the *vent pipe*, and
    - (iii) where 2 *fixtures* are connected to the *vent pipe*, the connection is done with a double fitting in conformance with Table 7.2.4.5.,

- (f) *fixtures* that have a hydraulic load totaling not more than 1-1/2 *fixture units* may be connected to the vertical section of a *yoke vent* provided
  - (i) not more than 2 *fixtures* are connected to the *vent pipe*, and
  - (ii) where 2 *fixtures* are connected to the *vent pipe*, the connection is done with a double fitting in conformance with Table 7.2.4.5., and

(g) *fixtures* may be connected to a *vent stack* provided

- (i) the total hydraulic load of the connected *fixtures* does not exceed 8 *fixture units*,
- (ii) at least 1 *fixture* is connected to a vertical portion of the *vent stack* and upstream of any other *fixtures*,
- (iii) no other *fixture* is connected downstream of a water closet, and
- (iv) all *fixtures* are located in the lowest *storey* served by the *vent stack*.

(2) The connection of a *soil* or *waste pipe* to a *nominally horizontal soil* or *waste pipe* or to a *nominally horizontal offset* in a *soil* or *waste stack* shall be respectively at least 1 500 mm measured horizontally from the bottom of a *soil* or *waste stack* or from the bottom of the upper vertical section of the *soil* or *waste stack* that

- (a) receives a discharge of 30 or more *fixture units*, or
  - (b) receives a discharge from *fixtures* located on 2 or more *storeys*.
- (3) No other *fixture* shall be connected to a lead bend or stub that serves a water closet.

#### 7.4.2.2. Connection of Overflows from Rainwater Tanks

(1) An overflow from a rainwater tank shall not be *directly connected* to a *storm drainage system*.

#### 7.4.2.3. Direct Connections

(1) Two or more *fixture outlet pipes* that serve outlets from a single *fixture* that is listed in Clause 7.4.2.1.(1)(d) may be *directly connected* to a *branch* that

- (a) has a *size* of at least 1-1/4 in., and
- (b) is terminated above the *flood level rim* of a *directly connected fixture* with a minimum diameter waste of 1-1/2 in. to form an *air break*.

(2) *Fixture drains* from *fixtures* that are listed in Subclauses (i) and (ii) of Clause 7.4.2.1.(1)(d) may be *directly connected* to a pipe that

- (a) is terminated to form an *air break* above the *flood level rim* of a *fixture* that is *directly connected* to a *sanitary drainage system*, and
- (b) is extended through the roof when *fixtures* that are on 3 or more *storeys* are connected to it.

(3) *Fixture drains* from *fixtures* that are listed in Subclauses (iii) to (vi) of Clause 7.4.2.1.(1)(d) may be *directly connected* to a pipe that

- (a) is terminated to form an *air break* above the *flood level rim* of a *fixture* that is *directly connected* to a *storm drainage system*, and
- (b) is extended through the roof when *fixtures* that are on 3 or more *storeys* are connected to it.

(4) Every *waste pipe* carrying waste from a device for the display, storage, preparation or processing of food or drink shall be trapped and have a minimum diameter equal to the diameter of the drain outlet from the device.

#### 7.4.3. Location of Fixtures

##### 7.4.3.1. Plumbing Fixtures

(1) *Sanitary units*, bathtubs and shower baths shall not be installed adjacent to wall and floor surfaces that are pervious to water.

##### 7.4.3.2. Restricted Locations of Indirect Connections and Traps

(1) Indirect connections or any *trap* that may overflow shall not be located in a crawl space or any other unfrequented area.

##### 7.4.3.3. Equipment Restrictions Upstream of Interceptors

(1) Except as provided in Sentence (2), garbage grinders, potato peelers and other similar types of equipment shall not be located upstream of an *interceptor*.

(2) If a food scrap *interceptor* has been installed upstream of the grease *interceptor*, garbage grinders, potato peelers and other similar equipment may discharge through a grease *interceptor*.

##### 7.4.3.4. Fixtures Located in Chemical Storage Locations and Elevator Pits

(1) A floor drain or other *fixture* located in an oil transformer vault, a high voltage room or any room where flammable, dangerous or toxic chemicals are stored or handled shall not be connected to a *drainage system*.

(2) If a floor drain is provided in an elevator pit, it shall be installed in accordance with Section 2.7. of the CAN/CSA-B44, "Safety Code for Elevators, Escalators, Dumbwaiters, Moving Walks and Freight Platform Lifts".

#### 7.4.4. Treatment of Sewage and Wastes

##### 7.4.4.1. Sewage Treatment

(1) Where a *fixture* or equipment discharges *sewage* or waste that may damage or impair the *sanitary drainage system* or the functioning of a *sanitary sewage works* or *sanitary sewage system*, provision shall be made for treatment of the *sewage* or waste before it is discharged to the *sanitary drainage system*.

##### 7.4.4.2. Protection for Drainage System

(1) Where a *fixture* discharges *sewage* or *clear water waste* that has been heated, the *drainage system* shall be suitable for the temperature of the *sewage* or *clear water waste* being discharged.

##### 7.4.4.3. Interceptors

(1) Except for *suites* of *residential occupancy*, a grease *interceptor* shall be required anywhere that food is cooked, processed or prepared.

(2) Except as provided in Sentence (3), oil *interceptors* shall be provided as follows:



- (a) service stations, repair shops and garages or any establishment where motor vehicles are repaired, lubricated or maintained shall be provided with an oil *interceptor*, and
- (b) establishments which use oily or flammable liquids or have such wastes as a result of an industrial process shall be provided with an engineered oil *interceptor*.

(3) Oil *interceptors* are not required for a drain in a hydraulic elevator pit, parking lot, car wash or a garage used exclusively as a motor vehicle parking area.

(4) Where a *fixture* discharges sand, grit or similar materials, an *interceptor* designed for the purpose of intercepting such discharges shall be installed.

(5) Every *interceptor* shall have sufficient capacity to perform the service for which it is provided.

(6) An on site constructed *interceptor* shall be constructed to the requirements of a manufactured *interceptor*.

(7) A grease *interceptor* shall be located as close as possible to the *fixture* or *fixtures* it serves.

(8) The flow rate through a grease *interceptor* shall not exceed its rated capacity and the flow rate shall be determined using the following:

$$Q = \left( \sum_{i=1}^N (0.75 \frac{V}{DDT}) \right) + PD$$

where Q is the flow rate to a grease *interceptor* in L/s,

where V is the volume of the *fixture* in l,

where DDT is the drain down time, 60 or 120 seconds (1 or 2 minutes),

where PD is any pump discharge in L/s,

where N is the number of *fixtures* to go through the *interceptor*.

(9) All grease and oil *interceptors* shall have an internal flow control and where the head will exceed five feet, a secondary flow control shall be required.

(10) Floor drains that conform to Sentence 7.4.5.1.(3) are not required to be separately trapped and vented, and may be gang trapped when discharging through an oil *interceptor*.

#### 7.4.4.4. Neutralizing and Dilution Tanks

(1) Where a *fixture* or equipment discharges corrosive or acid waste, it shall discharge into a neutralizing or diluting tank which shall be connected to the *sanitary drainage system* through

- (a) a *trap*, or
- (b) *indirect connection*.

(2) Each neutralizing or diluting tank shall have a method for neutralizing the liquid.

#### 7.4.5. Traps

##### 7.4.5.1. Traps for Sanitary Drainage Systems

(1) Except as provided in Sentences (2) and (3) and Article 7.4.5.2., every *fixture* shall be protected by a separate *trap*.

(2) One *trap* may protect

- (a) all the trays or compartments of a two or three compartment sink,
- (b) a two or three compartment laundry tray, or
- (c) two similar type single compartment *fixtures* located in the same room.

(3) One *trap* may serve a group of floor drains and *hub drains*, a group of shower drains, a group of washing machines or a group of laboratory sinks if the *fixtures*

- (a) are in the same room, and
- (b) are not located where they can receive food or other organic matter.

(4) Reserved

(5) A grease *interceptor* shall not serve as a *fixture trap* and each *fixture* discharging through the *interceptor* shall be trapped and vented.

##### 7.4.5.2. Traps for Storm Drainage Systems

(1) Where a *storm drainage system* is connected to a public combined sewer, a *trap* shall be installed between any opening in the system and the drain or sewer, except that no *trap* is required if the opening is the upper end of a *leader* that terminates

- (a) at a roof that is used only for weather protection, and
- (b) at least 900 mm above or at least 3.5 m in any other direction from any air inlet, openable window or door, and at least 2 000 mm from a property line.

##### 7.4.5.3. Connection of Subsoil Drainage Pipe to a Sanitary Drainage System

(1) Except as permitted in Sentence (2), no foundation drain or *subsoil drainage pipe* shall connect to a *sanitary drainage system*.

(2) Where a *storm drainage system* is not available or *soil* conditions prevent drainage to a culvert or dry well, a foundation drain or *subsoil drainage pipe* may connect to a *sanitary drainage system*.

(3) Where a *subsoil drainage pipe* may be connected to a *sanitary drainage system*, the connection shall be made on the upstream side of a *trap* with a *cleanout* or a trapped sump.

##### 7.4.5.4. Location and Cleanout for Building Traps

- (1) Where a *building trap* is installed, it shall
  - (a) be provided with a *cleanout* fitting on the upstream side of and directly over the *trap*,
  - (b) be located upstream of the *building cleanout*, and
  - (c) be located
    - (i) inside the *building* as close as practical to the place where the *building drain* leaves the *building*, or
    - (ii) outside the *building* in a manhole.

##### 7.4.5.5. Trap Seals

(1) Provision shall be made for maintaining the *trap* seal of a floor drain or a *hub drain* by the use of a *trap* seal primer, by using the drain

as a receptacle for an *indirectly connected* drinking fountain, or by equally effective means.

(2) Where a mechanical device is installed to furnish water to a *trap*, the pipe or tube conveying water from the device to the *trap* shall be at least 3/8 in. inside diameter.

#### 7.4.6. Arrangement of Drainage Piping

##### 7.4.6.1. Separate Systems

(1) No vertical *soil* or *waste pipe* shall conduct both *sanitary sewage* and *storm sewage*.

(2) There shall be no unused open ends in a *drainage system* and *dead ends* shall be so graded that water will not collect in them.

##### 7.4.6.2. Location of Soil or Waste Pipes

(1) A *soil* or *waste pipe* shall not be located directly above

- (a) non-pressure *potable* water storage tanks,
- (b) manholes in pressure *potable* water storage tanks, or
- (c) food-handling or processing equipment.

##### 7.4.6.3. Sumps or Tanks

(1) Only piping that is too low to drain into a *building sewer* by gravity shall be drained to a sump or receiving tank.

(2) Where the sump or tank receives *sanitary sewage*, it shall be water and air-tight and shall be vented.

(3) Equipment such as a pump or ejector that can lift the contents of the sump or tank and discharge it into the *sanitary building drain* or *sanitary building sewer* shall be installed.

(4) Where the equipment does not operate automatically, the *capacity* of the sump shall be sufficient to hold at least a 24-hour accumulation of liquid.

(5) Where there is a *building trap*, the discharge pipe from the equipment shall be connected to the *sanitary building drain* downstream of the *trap*.

(6) The discharge pipe from every *sanitary sewage* sump shall be equipped with a union, a *check valve* and a shut-off valve installed in that sequence in the direction of discharge.

(7) The discharge piping from a pump or ejector shall be sized for optimum flow velocities at pump design conditions.

##### 7.4.6.4. Protection from Backflow

(1) A *backwater valve* or a gate valve shall not be installed in a *building drain* or in a *building sewer*.

(2) Except as provided in Sentences (3), (4) and (5), where a *building drain* or a *branch* may be subject to *backflow*, a gate valve or a *backwater valve* shall be installed on every *fixture drain* connected to them when the *fixture* is located below the level of the adjoining street.

(3) Where the *fixture* is a floor drain, a removable screw cap or other device may be installed on the upstream side of the *trap*.

(4) Where more than one *fixture* is located on a *storey* and all are connected to the same *branch*, the gate valve or *backwater valve* may be installed on the *branch*.

(5) A *subsoil drainage pipe* that drains into a *sanitary drainage system* that is subject to surcharge shall be connected in such a manner that *sewage* cannot back up into the *subsoil drainage pipe*.

##### 7.4.6.5. Mobile Home Sewer Service

(1) A *building sewer* intended to serve a mobile home shall

- (a) be not less than 4 in. in *size*,
- (b) be terminated above ground,
- (c) be provided with
  - (i) a tamperproof terminal connection that is capable of being repeatedly connected, disconnected and sealed,
  - (ii) a protective concrete pad, and
  - (iii) a means to protect it from frost heave, and
- (d) be designed and constructed in accordance with good engineering practice.

##### 7.4.6.6. Building Drain Ends

(1) Where a *building drain* enters a *building* above the elevation of the bottom of the wall of a *building*, the *building drain* may be deemed to terminate at the first point that the drainage pipe changes direction from the horizontal to the vertical.

#### 7.4.7. Cleanouts

##### 7.4.7.1. Cleanouts for Drainage Systems

(1) Every *sanitary drainage system* and *storm drainage system* shall be provided with *cleanouts* that will permit cleaning of the entire system.

(2) A *cleanout* fitting shall be provided on the upstream side and directly over every running *trap*.

(3) Every interior *leader* shall be provided with a *cleanout* fitting at the bottom of the *leader* or not more than 1 000 mm upstream from the bottom of the *leader*.

(4) Where a *cleanout* is required on a *building sewer* 8 in. or larger in *size*, it shall be a manhole.

(5) Where there is a change of direction greater than 45° in a *sanitary building drain* or a *sanitary building sewer*, a *cleanout* shall be installed at each change in direction.

(6) Every *sanitary building drain* or *storm building drain* shall be provided with a *cleanout* fitting that is located as close as practical to the place where the drain leaves the *building*.

(7) Every *soil* or *waste stack* shall be provided with a *cleanout* fitting

- (a) at the bottom of the stack,
- (b) not more than 1 000 mm upstream of the bottom of the stack, or
- (c) on a Y fitting connecting the stack to the *building drain* or *branch*.

(8) A *cleanout* shall be provided to permit the cleaning of the piping immediately downstream of an *interceptor*.

(9) Every indirect drainage pipe carrying waste from a food receptacle shall have a *cleanout* access at every change of direction of more than 45°.

(10) A *cleanout* shall be installed on a *fixture drain* serving a kitchen sink.

#### 7.4.7.2. Size and Spacing of Cleanouts

(1) Except as provided in Sentences (2) and (3), on drainage piping of 4 in. *size* and smaller, the minimum *size cleanout* opening shall be the same *size* as the drainage pipe and on drainage piping larger than the 4 in. *size*, the *cleanout* opening shall be 4 in. or larger and the maximum spacing between *cleanouts* on horizontal pipe shall be

- (a) in the case of a sink *waste pipe*, 6 m,
- (b) in the case of a horizontal *sanitary drainage pipe*, or *storm drainage pipe*, other than a *waste pipe* from a sink, 15 m, and
- (c) in the case of a horizontal *sanitary drainage pipe* or *storm drainage pipe* larger than 4 in. *size*, 30 m.

(2) The spacing between manholes serving a *building sewer*

- (a) 24 in. or less in *size* shall not exceed 90 m, and
- (b) over 24 in. in *size* shall not exceed 150 m.

(3) The *developed length* of a *building sewer* between the *building* and the first manhole to which the *building sewer* connects shall not exceed 30 m.

(4) *Cleanouts* capable of rodding in one direction only shall be installed to rod in the direction of flow.

(5) Manholes shall be located at all junctions, all changes in grade, *size* or alignment (except for curvilinear alignment) on a *sanitary building sewer*.

(6) Manholes shall be located at changes of grade, *size* or alignment (except for curvilinear alignment) on a *storm building sewer*.

#### 7.4.7.3. Manholes

(1) A manhole including the cover shall be designed to support all loads imposed upon it.

- (2) A manhole shall be provided with
  - (a) a cover which shall provide an airtight seal if located within a *building*,
  - (b) a rigid ladder of a corrosion-resistant material where the depth exceeds 1 000 mm, and
  - (c) a vent to the exterior if the manhole is located within a *building*.

(3) A manhole shall have a minimum horizontal dimension of 1 200 mm, except that the top 1 500 mm may be tapered from 1 200 mm down to a minimum of 600 mm at the top.

(4) A manhole in a *sanitary drainage system* shall be channelled to direct the flow of effluent.

#### 7.4.7.4. Location of Cleanouts

(1) *Cleanouts* and access covers shall be located so that the openings are readily *accessible* for rodding and cleaning purposes.

(2) A *cleanout* shall not be located in a floor assembly in a manner that may constitute a hazard and shall not be used as a floor drain.

(3) Reserved

(4) Each change of direction of the piping between a *cleanout* fitting and the drainage piping or *vent piping* that it serves shall be accomplished by using 45° bends.

(5) A *cleanout* shall be provided to serve vertical drainage piping from a wall hung urinal and shall extend above the *flood level rim* of the *fixture*.

#### 7.4.8. Minimum Slope and Length of Drainage Pipes

##### 7.4.8.1. Minimum Slope

(1) Every drainage pipe that has a *size* of 3 in. or less, and every *fixture drain* shall have a downward slope in the direction of flow of at least 1 in 50.

(2) Sentence (1) does not apply to a *force main*.

##### 7.4.8.2. Length of Fixture Outlet Pipe

(1) Except as provided in Sentence 7.4.5.1.(3), the *developed length* of every *fixture outlet pipe* shall not exceed 900 mm.

#### 7.4.9. Size of Drainage Pipes

##### 7.4.9.1. No Reduction in Size

(1) No *soil* or *waste pipe* that is of minimum *size* required by this Code for the purpose for which it is installed shall be so connected as to drain to other drainage pipe of lesser *size*.

(2) Where a *building drain* connects to a stack through a wall or floor, the drain shall retain its full *size* through the wall or floor.

##### 7.4.9.2. Serving Water Closets

(1) The *size* of every drainage pipe that serves a water closet shall be at least 3 in.

(2) The *size* of every *horizontal branch* downstream of the third water closet *fixture drain* connection shall be at least 4 in.

(3) The *size* of every *soil stack* that serves more than 6 water closets shall be at least 4 in.

##### 7.4.9.3. Size of Fixture Outlet Pipes

(1) Except as provided in Sentence (2) the *size* of every *fixture outlet pipe* shall conform to Table 7.4.9.3.

(2) The part of the *fixture outlet pipe* that is common to 3 compartments of a sink shall be one *size* larger than the largest *fixture outlet pipe* of the compartments that it serves.



**7.4.9.4. Minimum Size of Building Drains and Sewers**

(1) Every *sanitary building drain* and every *sanitary building sewer* shall be at least 4 in. *size*.

(2) Every *storm building drain* and every *storm building sewer* shall be at least 4 in. *size*.

**Table 7.4.9.3.**

**Minimum Permitted Size of Fixture Outlet Pipe  
and Hydraulic Loads for Fixtures**

Forming Part of Sentences 7.4.9.3.(1) and 7.4.10.2.(1)

<i>Fixture</i>	<i>Min. Size of Fixture Outlet Pipe, in.</i>	<i>Hydraulic Load, fixture units</i>
Autopsy table	1½	2
Bathroom group		
(a) with flush tank		6
(b) with direct flush valve		8
Bathtub (with or without shower)	1½	1½
Bath: foot, sitz or slab	1½	1½
Bed pan washer	3	6
Beer cabinet	1½	1½
Bidet	1¼	1
Chinese range	1½	3
Clothes washer		
(a) domestic	N/A	1½ with 1½ in. trap
(b) commercial	N/A	2 with 1½ in. trap
Dental unit or cuspidor	1¼	1
Dishwasher		½
(a) domestic	1½	no load when connected to garbage grinder or domestic sink
(b) commercial type	2	3
Drinking fountain	1¼	½
Fish tank or tray	1½	1½
Floor drain	2	2 with 2 in. trap 3 with 3 in. trap
Garbage grinder, commercial type	2	3
Icebox	1¼	1
Laundry tray		
(a) single or double units or 2 single units with common trap	1½	1½
(b) 3 compartments	1½	2
Lavatory		
(a) barber or beauty parlor	1½	1½

(b) dental	1¼	1
(c) domestic type single, or 2 single with common trap	1¼	1 with 1¼ in. trap 1½ with 1½ in. trap
(d) multiple or industrial type	1½	3
Potato Peeler	2	3
Shower drain		
(a) from 1 head	1½	1½
(b) from 2 or 3 heads	2	3
(c) from 4 to 6 heads	3	6
Sink		
(a) domestic and other small type with or without gar- bage grinders, single, dou- ble or 2 single with a com- mon trap	1½	1½
(b) other sinks	1½	1½ with 1½ in. trap 2 with 2 in. trap 3 with 3 in. trap
Urinal		
(a) pedestal, siphon jet or blowout type	2	4
(b) stall, washout type	2	2
(c) wall		
(i) washout type	1½	1½
(ii) other types	2	3
Water closet		
(a) with flush tank	3	4
(b) with direct flush	3	6
Column 1	2	3

**7.4.10. Hydraulic Loads****7.4.10.1. Total Load on a Pipe**

(1) The hydraulic load on a pipe is the total load from

- (a) every *fixture* that is connected to the system upstream of the pipe, and
- (b) every *fixture* for which provision is made for future connection upstream of the pipe.

**7.4.10.2. Hydraulic Loads for Fixtures**

(1) The hydraulic load from a *fixture* that is listed in Table 7.4.9.3. is the number of *fixture units* set forth in the Table.

(2) Except as provided in Sentence (1), the hydraulic load from a *fixture* that is not listed in Table 7.4.9.3. is the number of *fixture units* set forth in Table 7.4.10.2. for the *trap* of the *size* that serves the *fixture*.

Table 7.4.10.2.

**Permitted Hydraulic Load from a Fixture Based on Size of Trap**

Forming Part of Sentence 7.4.10.2.(2)

Size of Trap, in.	Hydraulic Load, fixture units
1¼	1
1½	2
2	3
2½	4
3	5
4	6
Column 1	2

**7.4.10.3. Fixture Loading for Horizontal Drain**

(1) No horizontal *sanitary drainage pipe* of less than 3 in. size shall have a *fixture loading* in excess of that permitted by Table 7.4.10.3.A.

Table 7.4.10.3.A.

**Maximum Permitted Hydraulic Load Drained to a Branch**

Forming Part of Sentence 7.4.10.3.(1)

Size of Branch, in.	Maximum Load, fixture units
1¼	2
1½	4
2	6
Column 1	2

(2) Reserved

(3) The horizontal *sanitary drainage pipe size* shall be that size determined from Table 7.4.10.3.C. after the total connected load in *fixture units* on a horizontal *sanitary drainage pipe* is converted to gallons per minute in accordance with Table 7.4.10.3.B.

(4) Horizontal *sanitary drainage pipe* shall be designed to carry no more than 65% of its full capacity.

Table 7.4.10.3.B.

**Maximum Probable Drainage Rate, gal/min**

Forming Part of Sentences 7.4.10.3.(3), 7.4.10.4.(1), 7.4.10.5.(3)

Fixture Units in Service	Fixture Units Col. 1	Fixture Units Col. 1 x 10	Fixture Units Col. 1 x 100
100	53	174	900
90	51	164	835
80	49	153	750
70	47	140	680
60	44	128	600
50	41	115	520
40	38	102	435
30	33	88	350
20	27	72	262
10	21	53	174
Column 1	2	3	4

Table 7.4.10.3.C.

**Capacity of Horizontal Drainage Pipe, gal/min**

Forming Part of Sentences 7.4.10.3.(3) and 7.4.10.4.(1)

Drain Size, Nominal in.	Loading	Slope <sup>(1)</sup>					
		1:400	1:200	1:125	1:100	1:50	1:25
3	65% Full					46	67
4	65% Full				63	91	132
5	65% Full		81	96	116	165	240
6	65% Full	94	127	156	185	272	396
8	65% Full	182	269	341	390	578	835
10	65% Full	347	507	618	735	1050	1540
12	65% Full	585	825	975	1180	1750	2460
15	65% Full	720	1010	1180	1390	1990	2790
Column 1	2	3	4	5	6	7	8

**Note to Table 7.4.10.3.C.:**

(1) Slope is the ratio of rise to run, in whatever measurement units are chosen.

**7.4.10.4. Hydraulic Loads from Continuous Flows**

(1) For the purposes of determining the *size of sanitary drainage pipe* in accordance with Table 7.4.10.3.C., pumped discharge and other continuous or semi-continuous flows shall be calculated in gallons per minute and added to the drainage rate in gallons per minute from Table 7.4.10.3.B.

**7.4.10.5. Hydraulic Loads for Vertical Drains**

(1) No vertical *waste pipe, branch* or stack of less than 3 in. diameter shall have a hydraulic load in excess of that permitted by Table 7.4.10.5.A.

(2) Reserved

(3) The vertical *sanitary drainage pipe size* shall be that size determined from Table 7.4.10.5.B. after the total connected load in *fixture units* on a vertical drainage pipe is converted to gallons per minute in accordance with Table 7.4.10.3.B.

(4) Vertical *sanitary drainage pipe* shall be designed to carry no more than 33% of its full capacity.

Table 7.4.10.5.A.

**Maximum Load on Vertical Drainage Pipe, fixture units**

Forming Part of Sentence 7.4.10.5.(1)

Pipe Size, in.	Stack Height 3 Storeys or less	Stack Height more than 3 Storeys	For Each Storey in Stack of more than 3 Storeys
1¼	3	3	3
1½	8	8	5
2	16	24	10
Column 1	2	3	4

**Section 7.5. Venting Systems****7.5.1. Vent Pipes for Traps****7.5.1.1. Venting for Traps**

(1) Except as provided in Sentences (2) and (3) and Article 7.5.2.1., every *trap* shall be vented.

(2) A *trap* that serves a floor drain or *hub drain*, directly connected to a *sanitary building drain* is not required to be vented where

- (a) the *size* of the *trap* is at least 3 in.,
- (b) the length of the *fixture drain* is at least 900 mm,
- (c) the total fall on the *fixture drain* does not exceed its inside diameter, and
- (d) the minimum slope on a 3 in. *fixture drain* is 1 in 50 and on *sizes* larger than 3 in. is 1 in 100.

(3) A *trap* is not required to be vented where

- (a) it serves a *subsoil drainage pipe*,
- (b) it serves a *storm drainage system*, or
- (c) it forms part of an indirect *drainage system*, less than three *storeys* high.



Table 7.4.10.5.B.

**Maximum Load on Vertical Drainage Pipe in GPM  
and Maximum Length of Vent Stacks**

Forming Part of Sentences 7.4.10.5.(3), 7.5.3.2.(3) and 7.5.7.2.(1)

Stack Size, in. (Drain)	Water Occupied Area	Flow Rate, gal/min	Vent Stack Size, in. and Maximum Length, metres										
			1½	2	2½	3	4	5	6	8	10	12	14
3	0.15	18.4	12.8	44.2	108.0	317.0							
	.20	29.4	9.8	33.5	82.3	245.4							
	.25	43.0	8.2	28.7	70.1	207.3							
	.29	55.7	7.6	26.2	64.0	189.0							
	.30	58.4	7.3	25.9	62.5	185.9							
	.33	69.5	7.0	24.7	61.0	178.3							
4	0.15	39.6		10.7	25.9	76.2	297.2						
	.20	64.0		8.2	19.8	59.4	228.6						
	.25	92.5		7.0	16.8	50.3	193.5						
	.29	120.0		6.4	15.2	45.7	176.8						
	.30	126.0		6.1	14.9	44.8	173.7						
	.33	150.0		5.8	14.3	42.7	166.1						
5	0.15	72.0			8.5	25.0	97.5	300.2					
	.20	116.0			6.4	19.2	74.7	231.6					
	.25	168.0			5.5	16.2	63.1	195.1					
	.29	217.0			4.9	14.9	57.6	178.3					
	.30	228.0			4.9	14.6	56.7	175.3					
	.33	272.0			4.6	14.0	54.6	169.2					
6	0.15	117.0				10.1	39.6	121.9	304.8				
	.20	189.0				7.9	30.5	94.5	236.2				
	.25	274.0				6.7	25.6	79.2	199.6				
	.29	354.0				6.1	23.5	73.2	181.4				
	.30	370.0				5.8	23.2	71.6	179.8				
	.33	441.0				5.8	22.3	68.6	172.2				
8	0.15	251.0					9.4	29.0	73.2	286.5			
	.20	406.0					7.3	22.3	56.4	219.5			
	.25	589.0					6.1	18.9	47.2	185.9			
	.29	762.0					5.5	17.1	42.7	169.2			
	.30	798.0					5.5	17.1	42.7	167.6			
	.33	950.0					5.2	16.2	41.1	160.0			
10	0.15	455.0						9.4	23.8	93.0	292.6		
	.20	736.0						7.3	18.3	71.6	224.0		
	.25	1070.0						6.1	15.5	61.0	190.5		
	.29	1380.0						5.5	14.0	54.9	173.7		
	.30	1440.0						5.5	14.0	54.9	170.7		
	.33	1730.0						5.2	13.4	51.8	163.1		
12	0.15	740.0							9.4	36.6	115.8	286.5	
	.20	1200.0							7.3	28.7	89.9	219.5	
	.25	1730.0							6.1	24.1	76.2	185.9	
	.29	2240.0							5.5	21.9	68.6	169.2	
	.30	2350.0							5.5	21.6	68.6	167.6	
	.33	2800.0							5.2	20.7	65.5	160.0	
15	0.15	1340.0								12.2	38.1	93.0	146.3
	.20	2170.0								9.4	29.3	71.6	112.8
	.25	3140.0								7.9	24.7	61.0	94.5
	.29	4070.0								7.3	22.6	54.9	88.4
	.30	4260.0								7.0	22.3	54.9	85.3
	.33	5080.0								6.7	21.3	51.8	82.3
Col. 1	2	3	4	5	6	7	8	9	10	11	12	13	14

### 7.5.2. Stack Venting & Modified Stack Venting, Circuit Venting and Relief Venting

#### 7.5.2.1. Vertical Stacks

(1) A vertical *soil stack* that is not less than 3 inches diameter that is extended as a *stack vent* shall be deemed to vent a *fixture trap* where the connection of the *fixture drain* meets the following requirements:

- (a) the number of *stack vented fixtures* connected to one stack above the water closet is not greater than 4,
- (b) all *fixtures* of the *stack vented* group numbering four or less above the water closet are on the same floor level or *storey* and the stack receives no waste at a higher level,
- (c) the number of *stack vented* water closets is not greater than 2,
- (d) where two water closets are installed, they are connected at the same level to a vertical part of the stack,
- (e) where there are two water closets in a *stack vented* group and they are installed as described in Clause (d), the remaining *fixtures* of the group are connected directly and independently to the stack above the centre-line of the connection of the two water closets and the uppermost *fixture* is connected to the vertical portion of the stack,
- (f) where there is only one water closet in the *stack vented* group it is connected to the vertical stack or the horizontal continuation of the stack and the remaining *fixtures* upstream of the water closet are connected directly and independently to the stack and the uppermost *fixture* is connected to the vertical portion of the stack,
- (g) the total number of *fixture units* connected above the water closet is not greater than 8, and
- (h) no *fixture drain* connected above the water closet is of more than 2 in. trade size and is not serving a siphonic trap.

#### 7.5.2.2. Horizontal Branches and Relief Vents

(1) A *horizontal branch* off a stack or off a *sanitary building drain* may be *circuit vented* where

- (a) the *circuit vented branch* is of a size 3 in. or greater,
- (b) the number of *circuit vented fixtures* is less than 7 per vent and in any group of 6 or less *circuit vented fixtures* all but the last of the group are downstream of the point where the *circuit vent* connects to the *branch*,
- (c) the *circuit vented fixture* is a *sanitary unit*, floor drain, *hub drain*, shower drain or *trap standard* slop sink,
- (d) all *fixtures* connected to the *circuit vented branch* are on the same floor level,
- (e) no *soil* or *waste stack* connects to the *circuit vented branch*,
- (f) no *circuit vented trap* has a horizontal run of *waste pipe* of more than 1 500 mm, and
- (g) in a water closet installation, no *circuit vented trap* has a horizontal run of *waste pipe* of more than 1 500 mm nor a vertical run of more than 900 mm.

(2) Where a stack or a *sanitary building drain* has a *circuit vented branch* connected to it and the stack or *sanitary building drain* carries

more than eight *fixture units* of drainage upstream of the connection or has connected to it a *sanitary drainage pipe* larger than 2 in. size or receives drainage from a higher floor level, the *circuit vented branch* shall be *relief vented*.

(3) A *relief vent* required by Sentence (2) may be a *wet vent* if it is of 2 in. size or greater and not more than one *fixture* having a maximum of 1-1/2 *fixture units* is drained into it.

(4) Where *circuit vented fixture traps* are connected to 2 or more *horizontal branches* that connect to the same *horizontal branch*, the *horizontal branches* may have a combined *relief vent*.

### 7.5.3. Vent Pipes for Soil or Waste Stacks

#### 7.5.3.1. Stack Vents

(1) The upper end of every *soil* or *waste stack* shall terminate in a *stack vent* and the *stack vent* shall terminate in *open air* outside the *building* or connect directly or through a *header* to another *stack vent* or *vent stack* that does terminate in *open air* outside the *building*.

#### 7.5.3.2. Vent Stacks

(1) Except as provided in Sentence (2), where *back vents*, *relief vents* or *circuit vents* are installed in two or more *storeys* served by a *soil stack* or *waste stack*, a *vent stack* shall be installed in conjunction with the *soil* or *waste stack*.

(2) A *vent stack* is not required to be installed in conjunction with the *soil* or *waste stack* in a residential *building* of 3 *storeys* or less.

(3) A *vent stack* shall

- (a) have its lower end connected to
  - (i) the *waste stack* or *soil stack* at or below the lowest horizontal *sanitary drainage pipe* connected to the *waste stack* or *soil stack*, or
  - (ii) the *sanitary building drain* immediately downstream of the stack connection,
- (b) extend to the *open air* independently or through a *header*,
- (c) except as provided for in Clause (d), where it is connected to the *soil stack*, *waste stack* or *sanitary building drain*, of a size and length as determined from Table 7.4.10.5.B., and
- (d) at each point of interconnection with a *branch vent* be not smaller than the minimum size permitted by Table 7.5.7.2.

(4) Where a *plumbing system* is installed in a *building*, every *storey* in which *plumbing* is or may be installed, including the basement of a single family dwelling, shall have extended into it or passing through it a *vent pipe* that is at least 1-1/2 in. size for the provision of future connections.

(5) Where a single family dwelling, built prior to April 7, 1976, has a *vent pipe* installed in the basement that is at least 1-1/4 in. trade size and there is no larger *vent pipe* in the area, the 1-1/4 in. pipe may be used to vent one water closet and one wash basin where both *fixtures* are located in the basement and where the vent connecting the water closet or the wash basin and the water closet to the *vent pipe* is at least 1-1/2 in. trade size.

(6) Where a *vent stack* is installed as a result of additions or alterations to a *plumbing system* in an existing *building*, the *vent stack* may be erected outside the *building*, provided that

- (a) no single change of direction of the stack exceeds 45°,

- (b) all parts of the stack are vertical,
- (c) the stack terminates above the roof of the *building* where the *building* is 4 *storeys* in height or less, and
- (d) the requirements set out in Sentence 7.5.5.5.(3) are met.

#### 7.5.3.3. Yoke Vents

(1) Except as provided in Sentence (4), where a *soil stack* or a *waste stack* receives the discharge from *fixtures* located on more than eleven *storeys*, a *yoke vent* shall be installed

- (a) for each section of five *storeys* or part thereof counted from the top down, and
- (b) at or immediately above each *offset* or double *offset*.

(2) The *yoke vent* shall be connected to the *soil* or *waste stack* by means of a drainage fitting at or immediately below the lowest *soil* or *waste pipe* from the lowest *storey* of the section described in Sentence (1).

(3) The *yoke vent* shall connect to the *vent stack* at least 1 000 mm above the floor level of the lowest *storey* in the section described in Sentence (1).

(4) A *yoke vent* is not required to be installed where the *soil* or *waste stack* is interconnected to the *vent stack* in each *storey* by means of a *fixture* or a group of vented *fixtures* installed in accordance with Subsection 7.5.2.

#### 7.5.4. Miscellaneous Vent Pipes

##### 7.5.4.1. Venting of Sanitary Sewage Sumps

(1) Every tank that receives *sanitary sewage* shall be provided with a *vent pipe* that is connected to the top of the tank and that is sized in accordance with Article 7.5.6.5.

##### 7.5.4.2. Venting of Interceptors

- (1) Every oil *interceptor* shall be provided with two *vent pipes* that
  - (a) connect to the *interceptor* at opposite ends,
  - (b) extend independently to *open air*,
  - (c) terminate at least 2 000 mm above ground and at elevations differing by at least 300 mm, and
  - (d) do not connect to each other or any other *vent pipe*.
- (2) Adjacent compartments within an oil *interceptor* shall be connected to each other by a vent opening.
- (3) Every grease *interceptor* shall have a *vent pipe* that is at least 1-1/2 in. *size* connected to the outlet pipe, that connects to the *plumbing venting system*.
- (4) A *vent pipe* shall be provided within 1 500 mm of the inlet to a grease *interceptor* complete with a *cleanout* to provide cleaning of the *vent pipe*.

(5) Where a secondary receiver is installed in conjunction with an oil *interceptor*, it shall be vented as per manufacturer's recommendations, but in no case shall the vent be less than 1-1/2 in. *trade size* and shall extend independently to *open air*.

(6) Where an acid waste dilution tank is installed, it shall be provided with a *vent pipe* connected at the top of the tank and that is sized in accordance with Article 7.5.6.5.

(7) Where a manufacturer of an oil *interceptor* makes no recommendations with respect to the *size* of the *vent pipe* venting an oil *interceptor*, the *interceptor* shall be vented at each end with a *vent pipe* that is not more than one *size* smaller than the largest connected drainage pipe and not less than 1-1/4 in. nominal pipe *size*.

(8) Every *vent pipe* serving an oil *interceptor* that is built in location shall be at least 3 in. *size* throughout its length.

(9) Every *vent pipe* serving an oil or grease *interceptor* that is located outside a *building* shall be a minimum 3 in. *size*.

#### 7.5.4.3. Fresh Air Inlet

(1) Where a *building trap* is installed in a *plumbing system*, a *fresh air inlet* not less than 4 in. *size* shall be connected upstream of the *building trap* and within 1 200 mm of the *building trap* and downstream of any other connection.

#### 7.5.4.4. Venting of Corrosive Drain Piping and Dilution Tanks

(1) Vents connecting to the corrosive drain piping or dilution tank shall extend independently to and terminate in *open air*.

#### 7.5.5. Arrangement of Vent Pipes

##### 7.5.5.1. Drainage of Vent Pipes

- (1) Every *waste pipe* shall be installed and *back vented* at the same time.
- (2) Every *vent pipe* shall be installed without a sag or depression and shall have no unused open ends.

##### 7.5.5.2. Vent Pipe Connections

(1) Every *vent pipe* in a *plumbing system* shall be installed so as to be direct as possible to a *vent stack* or *open air*, as the case may be, and so that any horizontal run below the flood level of the *fixture* to which the *vent pipe* is installed is eliminated where structurally possible.

(2) Except as provided in Sentence (3), where a *vent pipe* is connected to a *nominally horizontal soil* or *waste pipe*, the connection shall be above the horizontal centre line of the *soil* or *waste pipe*.

(3) A *wet vent* is not required to be connected above the horizontal centre line of the *soil* or *waste pipe*.

##### 7.5.5.3. Location of Vent Pipes

- (1) Except as provided in Sentences (2) and (3), a *vent pipe* that protects a *fixture trap* shall be so located that
  - (a) the *developed length* of a *fixture drain* measured from the *trap weir* is
    - (i) not less than twice the pipe *size* of the *fixture drain*, and
    - (ii) not more than 1 500 mm,
  - (b) the total fall of the *fixture drain* from a P-trap is not greater than the *size* of the *fixture drain*,
  - (c) no *fixture drain* has a cumulative change of direction of more than 135°, and
  - (d) except as permitted in Article 7.5.7.1., no *waste pipe* is connected to the *fixture drain* between the *trap* and its protecting vent.



(2) No *fixture drain* of a water closet, *S-trap standard* or a *fixture* that depends on siphonic action for the proper functioning of the *fixture* and that discharges vertically shall have a cumulative change of direction of more than 225°.

(3) No *vertical leg* of the *waste pipe* from a water closet or other *fixture* that has an integral siphonic flushing action shall exceed 900 mm.

(4) The *vent pipe* from a water closet or other *fixture* that has an integral siphonic flushing action may be connected to the *vertical leg* of its *waste pipe*.

#### 7.5.5.4. Connection of Vents Above Fixtures Served

(1) The upper end of every *vent pipe* shall be above the flood level of the highest *fixture* it serves before connection to another *vent pipe*.

(2) No vent piping shall be so arranged that it will serve as a bypass in the event of an obstruction in the drainage pipe.

#### 7.5.5.5. Terminals

(1) The upper end of every *vent pipe* that is not terminated in *open air* shall be connected to a *venting system* that is terminated in *open air*.

(2) A *vent pipe* that serves an oil *interceptor*, a *vent stack* that is permitted by Sentence 7.5.3.2.(6), a *vent stack* and a *stack vent* shall each terminate in *open air* as set out in Sentence (3).

(3) The terminal of a *vent pipe* shall be located

(a) at least 900 mm above or 3.5 m in any other direction from air inlet, openable window or door,

(b) at least 150 mm above the roof of the *building* where the vent is installed and, where storm water is intended to pond on the roof, at least 150 mm above the high water level, and

(c) at least 2 000 mm above the roof of the *building* that the vent is installed in, where the roof is intended for human occupancy.

(4) Clause (3)(a) does not apply to a *fresh air inlet pipe*.

(5) Where a *vent pipe* is located 2 000 mm or more above a roof, it shall be so constructed as to be stable and secure.

(6) Where a stack or *vent pipe* passes through a roof or a wall, the stack or *vent pipe* shall be equipped with a flashing so installed that no storm water can pass between the structure and the flashing or between the flashing and the pipe or stack.

(7) Flashing shall be of material specified in Article 7.2.10.14. and on a shingled roof shall have a minimum dimension of 500 mm by 500 mm.

(8) Where a sleeve flashing is installed on a flat roof, it shall extend at least 150 mm above the flood level and on a sloped roof shall be at least 150 mm high on the short side.

(9) No bore of a *vent stack* or *stack vent* shall be reduced or obstructed by the installation of a flashing.

(10) Where a *vent pipe* passes through a roof or an outside wall of a *building*, it shall be increased to a minimum size of 3 in. before penetrating the roof or wall.

### 7.5.6. Minimum Size of Vent Pipes

#### 7.5.6.1. General

(1) Except as provided in Article 7.5.3.1. and 7.5.7.1, where a *vent pipe* vents one or more *fixture traps*, the pipe size of the *vent pipe* shall be in accordance with Table 7.5.6.1.

Table 7.5.6.1.

#### Minimum Permitted Size of Vent Pipe Based on Size of Trap

Forming Part of Sentence 7.5.6.1.(1)

Size of Trap Served, in.	Minimum Size of Vent Pipe, in.
1¼	1¼
1½	1¼
2	1½
2½	1½
3	1½
4	1½
5	2
6	2
Column 1	2

(2) Every *relief vent* or *circuit vent* shall be at least 2 in. size.

#### 7.5.6.2. Size Restriction

(1) Except as provided in Sentence 7.5.3.2.(5), no *branch vent*, *stack vent*, *vent stack* or *header* shall be a size less than the size of the largest *vent pipe* connected to it.

(2) Every *sanitary building drain* shall terminate at its upstream end in a stack of at least 3 in. size.

(3) A stack referred to in Sentence (2) shall be a *soil stack* if one is available and may be a *vent stack* or *waste stack* that provides at least 3 in. *stack vent* and that goes to *open air* above the roof, either directly or through a *header*.

#### 7.5.6.3. Reserved

#### 7.5.6.4. Minimum Size of Yoke Vents

(1) Where a *yoke vent* is required to be installed in accordance with Article 7.5.3.3., the *yoke vent* shall be at least 2 in. size.

#### 7.5.6.5. Vents for Sanitary Sewage Sumps

(1) Where the diameter of an inlet pipe to a *sanitary sewage tank* is

(a) 5 in. or larger, the diameter of the *vent pipe* from the tank shall be at least 4 in., and

(b) less than 5 in., the diameter of the *vent pipe* from the tank shall be the greater of

(i) 1-1/4 in., and

(ii) one trade size smaller than the inlet pipe.

#### 7.5.7. Sizing of Vent Pipes

##### 7.5.7.1. Sizes for Wet Vents

(1) Where 2 or 3 *fixtures* are installed in a *plumbing system*, any one of the *fixtures* may be *wet vented* by one or both of the other *fixtures* if

(a) all the *fixtures* are on the same floor level,

- (b) only the *wet vented fixture* is a water closet or other fixture using a siphonic trap,
- (c) where the *wet vented trap* is not a siphonic trap, it is a P-trap and the *wet vent* is connected to the horizontal waste pipe downstream from the weir of the P-trap at least 450 mm and not more than 1 500 mm, and
- (d) at least one of the *wet venting fixtures* is drained through a vertical continuous waste and vent and the waste pipe serving as a *wet vent* is at least
- (i) 1-1/4 in. size, where the *wet vented trap* is of 1-1/4 or 1-1/2 in. size,
- (ii) 1-1/2 in. size, where the *wet vented trap* is of 2 in. size, or
- (iii) 2 in. size, where the *wet vented trap* is of 3, 4 or 6 in. size.

(2) Where there are two *wet venting fixtures* in a plumbing system referred to in Sentence (1) and both connect to the same vertical continuous waste and vent, both *wet venting fixtures* shall, where they are connected at the same level, be vented by a double fitting in conformance to Table 7.2.4.5. or, where they are not connected at the same level, be separately vented.

### 7.5.7.2. Branch Vent Sizing

(1) No *branch vent* and its connecting *branch* shall be smaller in diameter than the diameter calculated in accordance with Table 7.5.7.2.A. and where Table 7.4.10.5.B. is not applicable to the vent, the maximum length of the vent shall be calculated in accordance with Table 7.5.7.2.B.

(2) Where Table 7.4.10.5.B. is not applicable to a *branch vent*, *header* or *circuit vent*, no vent or *header* shall have *branch* connections in excess of the number that are permitted by the combinations in Table 7.5.7.2.A. and, where one *vent pipe* protects more than one *trap*, each *trap* shall be counted as one vent.

**Table 7.5.7.2.A.**

#### Branch Venting

Forming Part of Sentences 7.5.3.2.(3), 7.5.7.2.(1) and (2)

Combination Number	Size of Receiving Vent, in.	Maximum Number Size and Nature of Connecting Vents		
		1 1/4 in. Other than Water Closet	1 1/2 in. Other than Water Closet	1 1/2 in. Water Closet
1	1 1/4	4	--	--
2	1 1/2	12	--	--
3	1 1/2	--	6	--
4	1 1/2	--	--	2
5	1 1/2	4	--	1
6	1 1/2	2	1	1
7	1 1/2	--	2	1

8	2	50	--	--
9	2	--	25	--
10	2	--	12	6
11	2 1/2	--	12	10
12	2 1/2	25	--	10
Column 1	2	3	4	5

**Note to Table 7.5.7.2.A.:**

(1) *Vent pipes* permitted in Columns 3 and 4 of combinations 2 to 12 may be exchanged on the basis of two 1 1/4 in. *vent pipes* equal to one 1 1/2 in. *vent pipe*.

(3) Reserved

(4) For the purpose of Table 7.5.7.2.B.

(a) the length of a *circuit vent* shall be the *developed length* from the horizontal *soil* or *waste pipe* to the *vent stack*, *stack vent*, *header* or *open air*, and

(b) the length of a *branch vent* shall be the *developed length* of vent piping from the most distant *soil* or *waste pipe* connection to a *vent stack*, *stack vent*, *header* or *open air*.

**Table 7.5.7.2.B.**

#### Maximum Length of Vents

Forming Part of Articles 7.5.7.2. and 7.5.7.3.

Pipe, Trade Size, in.	Maximum Length, metres
1 1/4	15.2
1 1/2	15.2
2	18.3
2 1/2	24.4
3	30.5
4	45.7
5	61.0
6	76.2
Column 1	2

(5) Reserved

(6) Reserved

(7) For the purpose of Table 7.4.10.5.B. and Table 7.5.7.2.B., the length of a *header* shall be the *developed length* of vent piping from the *vent stack* or *stack vent* where the *header* terminates to the most distant vent or stack connected to it.

### 7.5.7.3. Developed Length

(1) For the purpose of Table 7.4.10.5.B. and Table 7.5.7.2.B., the length of a *vent stack* or *stack vent* shall be its *developed length* from its lower end where it connects to drainage piping to its upper end where it connects to a *header* or goes directly to *open air*.

## Section 7.6. Potable Water Systems

### 7.6.1. Arrangement of Piping

#### 7.6.1.1. Design, Fabrication and Installation

(1) *Potable water systems* shall be designed, fabricated and installed in accordance with good engineering practice.

(2) Every *fixture* supplied with separate hot and cold water controls shall have the hot water control on the left and the cold on the right.

(3) Where hot and cold water are mixed and the temperature is regulated by a single, unmarked, manual control, a movement to the left shall increase the temperature and a movement to the right shall decrease the temperature.

#### 7.6.1.2. Drainage

(1) A *water distribution system* shall be installed so that the system can be drained or blown out with air and outlets for this purpose shall be provided.

#### 7.6.1.3. Control and Shut-off Valves

(1) Every *water service pipe* shall be provided with a *building control valve* where the pipe enters the *building*.

(2) Except as provided in Sentence (3), a drain port shall be provided on the *water distribution system* immediately downstream of the *building control valve* required by Sentence (1) and if there is a meter, the drain port shall be installed immediately downstream of the meter on the *water distribution system*.

(3) Where the *building control valve* required by Sentence (1) is of one in. trade size or smaller, the drain port may be an integral part of the *building control valve* in the form of a stop and waste valve and the drain port shall be located on the *water distribution system* side of the stop and waste valve.

(4) Every pipe that is supplied with water from a gravity water tank or a tank of a *private water supply system* shall be provided with a shut-off valve located close to the tank.

(5) Where the water supply is to be metered, the installation of the meter, including the piping that is part of the meter installation and the valving arrangement for the meter installation, shall be according to the *water purveyor's* requirements.

(6) For the purpose of identifying the pipe material where plastic (polybutylene, polyethylene or PVC) water pipe is used underground for a service pipe, the end of the pipe inside the *building* shall be brought above ground for a distance not less than 300 mm and not greater than 450 mm.

#### 7.6.1.4. Shut-off Valves

(1) Except for a single-family dwelling, every *riser* shall be provided with a shut-off valve at the source of supply.

#### 7.6.1.5. Water Closets

(1) Every water closet shall be provided with a shut-off valve on its water supply pipe.

#### 7.6.1.6. Suites

(1) Shut-off valves shall be installed in every *suite* in a *building* of *residential occupancy* as may be necessary to ensure that when the supply to one *suite* is shut off the supply to the remainder of the *building* is not interrupted.

#### 7.6.1.7. Public Washroom

(1) The water supply to each *fixture* in a washroom for *public use* shall be individually valved and each valve shall be *accessible*.

#### 7.6.1.8. Tanks

(1) Every water pipe that supplies a hot water tank, pressure vessel, *plumbing appliance* or water using device shall be provided with a

shut-off valve located close to the tank, pressure vessel, *plumbing appliance* or water using device.

#### 7.6.1.9. Protection for Exterior Water Supply

(1) Every pipe that passes through an exterior wall to supply water to the exterior of the *building* shall be provided with a frost-proof hydrant or a stop-and-waste valve located inside the *building* and close to the wall.

(2) Where a self draining frost proof hydrant is used, a stop valve may be used in lieu of a stop-and-waste valve.

#### 7.6.1.10. Check Valves

(1) A *check valve* shall be installed at the *building* end of the *water service pipe* where the pipe is made of plastic that is suitable for cold water use only.

#### 7.6.1.11. Flushing Devices

(1) Every flushing device that serves a water closet or one or more urinals shall have sufficient capacity and be adjusted to deliver at each operation a volume of water that will thoroughly flush the *fixture* or *fixtures* that it serves.

(2) Where a manually operated flushing device is installed, it shall serve only one *fixture*.

#### 7.6.1.12. Relief Valves

(1) Every pressure vessel that is part of a *plumbing system* or connected to a *plumbing system* shall be equipped with a pressure relief valve designed to open when the water pressure in the tank reaches the rated working pressure of the tank, and so located that the pressure in the tank shall not exceed 1100 kPa or 1/2 the maximum test pressure sustained by the tank whichever is the lesser.

(2) Every hot water tank of a *storage-type service water heater* shall be equipped with

- (a) a temperature relief valve with a temperature sensing element located within the top 150 mm of the tank and designed to open and discharge sufficient water from the tank to keep the temperature of the water in the tank from exceeding 99°C under all operating conditions, or
- (b) a device that
  - (i) is designed to shut off the supply of electricity or fuel to the heater,
  - (ii) is not connected to and operates independently of the thermostatic control that determines the temperature of the water in the tank, and
  - (iii) is located and maintained on or within the top 150 mm of the tank so that the maximum temperature of the water in the tank shall not exceed 99°C under all operating conditions.

(3) Every tank equipped as specified in Clause 7.6.1.12.(2)(b) shall bear the information in a clearly visible location that it is so equipped.

(4) A pressure relief valve and temperature relief valve may be combined where Sentences (1) and (2) are complied with.

(5) Every *indirect service water heater* shall be equipped with

- (a) a pressure relief valve, and



- (b) a temperature relief valve on every storage tank that forms part of the system.

(6) A temperature relief, pressure relief, or a combined temperature and pressure relief valve which is installed on a hot water tank shall have a pipe that

- (a) has a size at least equal to the size of the outlet of the valve,
- (b) is rigid, slopes downward from the valve, and
  - (i) terminates with an indirect connection above a floor drain, sump or other safe location, with an *air break* of not more than 300 mm, or
  - (ii) terminates at a distance not less than 150 mm and not more than 300 mm from a floor and discharges vertically down,
- (c) has no thread at its outlet, and
- (d) is capable of operating at a temperature of not less than 99°C.

(7) The temperature relief valve required in Clause 7.6.1.12.(5)(b) shall have a temperature sensing element located within the top 150 mm of the tank and be designed to open and discharge sufficient water to keep the temperature of the water in the tank from exceeding 99°C under all operating conditions.

(8) No shut-off valve shall be installed on the pipe between any tank and the relief valves or on the discharge lines from such relief valves.

#### 7.6.1.13. Water Hammer

(1) Provision shall be made to protect the *water distribution system* from the adverse effects of water hammer.

#### 7.6.1.14. Mobile Home Water Service

- (1) A *water service pipe* intended to serve a mobile home shall
  - (a) be not less than 3/4 in. size,
  - (b) be terminated above ground, and
  - (c) be provided with
    - (i) a tamperproof terminal connection that is capable of being repeatedly connected, disconnected and sealed,
    - (ii) a protective concrete pad,
    - (iii) a means to protect it from frost heave, and
    - (iv) a curb stop and a means of draining that part of the pipe located above the frost line when not in use.

#### 7.6.1.15. Solar Domestic Hot Water Systems

(1) Systems for solar heating of *potable water* shall be installed in conformance with CAN/CSA-F383, "Installation Code for Solar Domestic Hot Water Systems".

### 7.6.2. Protection from Contamination

#### 7.6.2.1. Connection of Systems

(1) Connections to *potable water systems* shall be designed and installed so that non-*potable* water or substances that may render the water non-*potable* cannot enter the system.

(2) No connection shall be made between a *potable water system* supplied with water from a *water works* approved under the *Ontario Water Resources Act* and any other *potable water system* without the consent of the *water purveyor*.

#### 7.6.2.2. Cleaning of Systems

(1) Every newly installed part of a *potable water system* shall be clean and free of any matter that may affect the health of a person before being put into service.

#### 7.6.2.3. Back Siphonage

(1) Every *potable water system* that supplies a *fixture* or tank that is not subject to pressures above atmospheric shall be protected against *back-siphonage* by a *backflow preventer*.

(2) Where a *potable water* supply is connected to a boiler, tank, cooling jacket, lawn sprinkler system or other device where a non-*potable* fluid may be under pressure that is above atmospheric or the water outlet may be submerged in the non-*potable* fluid, the water supply shall be protected against *backflow* by a *backflow preventer*.

(3) Where a hose bibb is installed outside a *building*, inside a garage, or where there is an identifiable risk of contamination, the *potable water system* shall be protected against *backflow* by a *backflow preventer*.

(4) Where a *potable water system* serves a fire protection system, the fire protection system shall be isolated from the *potable water system* in the following manner:

- (a) a wet sprinkler fire protection system containing water only shall be provided with a *listed alarm check valve* installed in conformance with NFPA 13, "Installation of Sprinkler Systems",
- (b) a wet standpipe fire protection system containing water only shall be provided with a resilient seated *check valve*,
- (c) a wet sprinkler or wet standpipe fire protection system containing anti-freeze or chemicals shall be provided with a reduced pressure principle *backflow preventer* certified to CAN/CSA-B64.4 Series, "Backflow Preventers, Reduced Pressure Principle Type (RP)",
- (d) a dry sprinkler or dry standpipe fire protection system does not require isolation,
- (e) a water storage tank fire protection system shall be provided with a *backflow preventer* certified to CAN/CSA-B64 Series, "Backflow Preventers and Vacuum Breakers",
- (f) a fire hydrant fire protection system does not require isolation,
- (g) a *fire service main* shall be provided with a reduced pressure principle *backflow preventer* certified to CAN/CSA-B64.4, "Backflow Preventers, Reduced Pressure Principle Type (RP)" if it is connected to more than one of the following different sources of supply:

- (i) a *water works*,
- (ii) a *private water supply system*, or
- (iii) a source of non-*potable* water.

(5) Except as permitted in Sentences (4) and (8), *backflow prevention devices* to protect a *potable water system* from contamination shall be selected, installed and field tested in accordance with CAN/CSA-B64.10, "Backflow Prevention Devices - Selection, Installation, Maintenance and Field Testing".

(6) *Backflow* prevention devices shall be provided in conformance with Sentence 7.2.10.10.(1).

(7) Tank type water closet valves shall be provided with a *back-siphonage preventer* in conformance with Sentence 7.2.10.10.(2).

(8) *Buildings of residential occupancy* within the scope of Part 9 are not required to be isolated unless they have access to an auxiliary water supply.

#### 7.6.2.4. Air Gap

(1) An *air gap* shall not be located in a noxious environment.

(2) Every *air gap* shall be not less than 25 mm high and at least twice the diameter of the opening of the water supply outlet in height.

#### 7.6.2.5. Vacuum Breakers and Flood Levels

(1) Where the *critical level* is not marked on an atmospheric *vacuum breaker* or pressure *vacuum breaker*, the *critical level* shall be taken as the lowest point on the device.

(2) Where an atmospheric *vacuum breaker* is installed, it shall be located on the downstream side of the *fixture* control valve or faucet so that it will be subject to water supply pressure

(a) only when the *fixture* control valve or faucet is open, and

(b) for periods of use not to exceed 12 h continuous.

(3) An atmospheric *vacuum breaker* shall be installed so that the *critical level* is at least the distance specified by the manufacturer at which the device will operate safely but not less than 25 mm above

(a) the *flood level rim* of a *fixture* or tank, or

(b) the highest point open to atmosphere in an irrigation system.

(4) A pressure *vacuum breaker* shall be installed with its *critical level* at least 300 mm above

(a) the *flood level rim* of a *fixture* or tank, or

(b) the highest point open to atmosphere in an irrigation system.

#### 7.6.3. Size and Capacity of Pipes

##### 7.6.3.1. Design

(1) Except as provided in Sentence (2), the *size* of every pipe in a *water distribution system* that supplies water to a *fixture* or device shall comply with Table 7.6.3.1.

(2) Where a pipe in a *water distribution system* is not directly connected to a *fixture* or a *fixture* faucet but is connected with a flexible tube of a diameter smaller than that specified by Table 7.6.3.1., the *developed length* of the connector shall not be more than 355 mm and, where 3/8 in. pipe of iron pipe size is used, the maximum length shall not exceed 914 mm.

Table 7.6.3.1.

#### Pipe Sizing for Water Supply to Fixture/Device Forming Part of Sentences 7.6.3.1.(1) and (2)

<i>Fixture</i> or Device	Minimum Size of Supply Pipe, in.
Bath tub	1/2
Combination sink and tray	1/2
Dishwasher, domestic	1/2
Drinking fountain	3/8
Hose bib	1/2
Laundry tray: 1, 2 or 3 compartments	1/2
Lavatory	3/8
Shower, single head	1/2
Sink	
(a) kitchen, domestic	1/2
(b) kitchen, commercial	1/2
(c) service, slop	1/2
(d) service with direct flush valve	3/4
Urinal	
(a) with flush tank	1/2
(b) with direct flush valve	3/4
(c) with self closing metering	1/2
Wall hydrant	1/2
Water closet	
(a) with flush tank	3/8
(b) with direct flush valve	1
Column 1	2

#### 7.6.3.2. Peak Demand Flow

(1) No *water system* shall have a capacity that is less than the peak demand flow.

(2) No *water system* between the point of connection with the *water service pipe* or the water meter and the first branch that supplies a water heater, shall be less than 3/4 in. *size*.

(3) Every pipe that supplies a *fixture* shall have a capacity that will produce a flow in the *fixture* that will flush the *fixture* and keep it in a sanitary condition.

#### 7.6.3.3. Static Pressure

(1) Where the static pressure exceeds 550 kPa, a pressure reducing valve shall be installed to limit the maximum static pressure to not more than 550 kPa in areas that may be occupied.

#### 7.6.3.4. Size

(1) Every *water service pipe* shall be not less than 3/4 in. trade *size*.

#### 7.6.4. Water Efficiency

##### 7.6.4.1. Water Supply Fittings

(1) The flow rates of fittings that supply water to a *fixture* shall not exceed the maximum flow rates at the test pressures listed for that fitting in Table 7.6.4.1.

(2) Sentence (1) does not apply to a *fixture* located in a *heritage building*.

Table 7.6.4.1.

## Maximum Flow Rates for Water Supply Fittings

Forming Part of Sentence 7.6.4.1.(1)

Fitting	Maximum Flow, L/min	Test Pressure, kPa
Lavatory Faucet	8.35	413
Kitchen Faucet	8.35	413
Shower Heads	9.50	550
Column 1	2	3

## 7.6.4.2. Plumbing Fixtures

(1) Water closets and urinals shall be certified to CAN/CSA-B45.0, "General Requirements for Plumbing Fixtures".

(2) The flush cycle for each *fixture* that is a water closet or urinal and that is installed as a replacement for a *fixture* in a *building* that existed before January 1, 1996 shall not exceed the maximum flush cycle listed for that *fixture* in Table 7.6.4.2.A.

Table 7.6.4.2.A.

## Maximum Flush Cycles for Sanitary Fixtures

Forming Part of Sentence 7.6.4.2.(2)

Fixture	litres
Water Closet (Tank Type)	13.25
Water Closet (Direct Flush)	13.25
Urinal (Tank Type)	5.68 <sup>(1)</sup>
Urinal (Direct Flush)	5.68 <sup>(1)</sup>
Column 1	2

## Notes to Table 7.6.4.2.A.:

<sup>(1)</sup> Urinals equipped with automatic flushing devices shall be controlled to prevent unnecessary flush cycles during *building* down time.

(3) Except as provided in Sentence (2), the flush cycle for each *fixture* that is a water closet or urinal shall not exceed the maximum flush cycle listed for that *fixture* in Table 7.6.4.2.B.

(4) Sentences (2) and (3) do not apply to a *fixture* located in a *heritage building*, *care or detention occupancy* or *passenger station*.

Table 7.6.4.2.B.

## Maximum Flush Cycles for Sanitary Fixtures

Forming Part of Sentence 7.6.4.2.(3)

Fixture	litres
Water Closet (Tank Type)	6.0
Water Closet (Direct Flush)	6.0
Urinal (Tank Type)	3.8 <sup>(1)</sup>
Urinal (Direct Flush)	3.8 <sup>(1)</sup>
Column 1	2

## Note to Table 7.6.4.2.B.:

<sup>(1)</sup> Urinals equipped with automatic flushing devices shall be controlled to prevent unnecessary flush cycles during *building* down time.

## Section 7.7. Non-Potable Water Systems

## 7.7.1. Connection

## 7.7.1.1. Non-Potable Connection

(1) A *non-potable water system* shall not be connected to a *potable water system*.

## 7.7.2. Identification

## 7.7.2.1. Markings

(1) *Non-potable* water piping shall be identified by markings that are permanent, distinct and easily recognized.

## 7.7.3. Location

## 7.7.3.1. Pipes

(1) *Non-potable* water piping shall not be located

- (a) where food is prepared in a food processing plant,
- (b) above food-handling equipment,
- (c) above a non-pressurized *potable* water tank, or
- (d) above a cover of a pressurized *potable* water tank.

## 7.7.3.2. Outlets

(1) An outlet from a *non-potable water system* shall not be located where it can discharge into

- (a) a sink or lavatory,
- (b) a *fixture* into which an outlet from a *potable water system* is discharged, or
- (c) a *fixture* that is used for a purpose related to the preparation, handling or dispensing of food, drink or products that are intended for human consumption.

Part 8  
Reserved



## Part 9

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## Part 9

### Housing and Small Buildings

#### Section 9.1. General

##### 9.1.1 Scope

###### 9.1.1.1. Scope

- (1) The scope of this Part shall be as described in Section 2.1.

###### 9.1.1.2. Signs

- (1) Signs shall conform to the requirements in Section 3.14.

###### 9.1.1.3. Self-Service Storage Buildings

- (1) *Self-service storage buildings* shall conform to the requirements in Section 3.10.

###### 9.1.1.4. Tents and Air-Supported Structures

- (1) Tents shall conform to the requirements in Subsection 3.13.1.

- (2) *Air-supported structures* shall conform to the requirements in Subsection 3.13.2.

###### 9.1.1.5. Proximity to Existing Above Ground Electrical Conductors

- (1) Where a *building* is constructed in close proximity to existing above ground electrical conductors the requirements of Subsection 3.1.18. shall apply.

#### Section 9.2. Definitions

##### 9.2.1. General

###### 9.2.1.1. Defined Words

- (1) Words in italics are defined in Part 1.

#### Section 9.3. Materials, Systems and Equipment

##### 9.3.1. Concrete

###### 9.3.1.1. Concrete

- (1) Concrete shall be designed, mixed, placed, cured and tested in accordance with CAN3-A438-M, "Concrete Construction for Housing and Small Buildings."

###### 9.3.1.2. Cement

- (1) Cement shall meet the requirements of CAN/CSA-A5, "Portland Cements."

###### 9.3.1.3. Concrete in Contact with Sulfate Soil

- (1) Concrete in contact with sulfate *soil* deleterious to normal cement shall conform to the requirements in Clause 15.5 of CAN/CSA-A23.1, "Concrete Materials and Methods of Concrete Construction."

###### 9.3.1.4. Aggregates

- (1) Aggregates shall

- (a) consist of sand, gravel, crushed rock, crushed air-cooled blast furnace slag, expanded shale or expanded clay conforming to CAN/CSA-A23.1, "Concrete Materials and Methods of Concrete Construction", and

- (b) be clean, well-graded and free of injurious amounts of organic and other deleterious material.

###### 9.3.1.5. Water

- (1) Water shall be clean and free of injurious amounts of oil, organic matter, sediment or any other deleterious material.

###### 9.3.1.6. Compressive Strength

- (1) Except as provided elsewhere in this Part, the compressive strength of unreinforced concrete after 28 days shall be not less than

- (a) 32 MPa for garage and carport floors and all exterior flatwork, and

- (b) 15 MPa for all other applications.

- (2) Concrete used for garage and carport floors and exterior steps shall have air entrainment of 5 to 8%.

###### 9.3.1.7. Site Mixed Concrete

- (1) The concrete mixes described in Table 9.3.1.7. shall be considered acceptable if, when measured according to the slump test described in Appendix A of CAN3-A438-M, "Concrete Construction for Housing and Small Buildings," the slump does not exceed

- (a) 150 mm for footings for walls, columns, fireplaces and *chimneys*, *foundation* walls, grade beams and piers, or

- (b) 100 mm for garage and carport floors and all exterior flatwork.

**Table 9.3.1.7.**

#### Site Mixed Concrete Proportions<sup>(1)</sup>

Forming Part of Sentence 9.3.1.7.(1)

Maximum Size of Course Aggregate mm	Materials, volume					
	Cement		Fine Aggregate (damp average course sand)		Course Aggregate (gravel or crushed stone)	
	Parts	L <sup>(2)</sup>	Parts	L	Parts	L
14	1	28	1.75	49	2	56
20	1	28	1.75	49	2.5	70
28	1	28	2	56	3	84
40	1	28	2	56	3.5	98
Column 1	2	3	4	5	6	7

#### Notes to Table 9.3.1.7.:

- (1) The concrete strength obtained from these proportions will be in excess of the minimum strengths required in Sentence 9.3.1.6.(1).  
 (2) A 40 kg bag of cement contains 28 L.

- (2) Aggregate for unreinforced concrete mixes referred to in Sentence (1) shall not exceed in size

- (a) 1/5 the distance between the sides of vertical forms, or

- (b) 1/3 the thickness of flatwork.

**9.3.1.8. Admixtures**

(1) Admixtures shall conform to CAN3-A266.1-M, "Air Entraining Admixtures for Concrete" or CAN3-A266.2-M, "Chemical Admixtures for Concrete," as applicable.

**9.3.1.9. Reinforced Concrete**

(1) Reinforced concrete shall be designed to conform to the requirements of Part 4.

**9.3.1.10. Cold Weather Requirements**

(1) When the air temperature is below 5°C, concrete shall be

(a) kept at a temperature of not less than 10°C or more than 25°C while being placed, and

(b) maintained at a temperature of not less than 10°C for 72 h after placing.

(2) No frozen material or ice shall be used in concrete described in Sentence (1).

**9.3.2. Lumber and Wood Products****9.3.2.1. Grade Marking**

(1) Lumber for joists, rafters, trusses and beams and for the uses listed in Table 9.3.2.1. shall be identified by a grade stamp to indicate its grade as determined by the NLGA "Standard Grading Rules for Canadian Lumber."

**Table 9.3.2.1.****Minimum Lumber Grades for Specific End Uses**

Forming Part of Sentence 9.3.2.1.(1)

Use	Boards			Framing
	Paragraph in the NLGA grading rules under which boards are graded			
	All Species		Eastern White Pine & Red Pine	All Species
	Para 113	Para 114	Para 118	
Stud wall framing ( <i>loadbearing</i> members)	—	—	—	Stud, Standard No. 2
Stud wall framing ( <i>non-loadbearing</i> members)	—	—	—	Stud, Utility No. 3
Plank frame construction ( <i>loadbearing</i> members)	No. 3 Common	—	No. 3 Common	No. 2
Plank frame construction ( <i>non-loadbearing</i> members)	No. 5 Common	—	No. 5 Common	Economy, No 3
Post and beams less than 114 mm thickness	—	—	—	Standard, No.2
Post and beams not less than 114 mm thickness	—	—	—	Standard
Roof sheathing	No. 3 Common	Standard	No. 4 Common	—
Subflooring	No. 3 common	Standard	No. 3 Common	—
Wall sheathing when required as a nailing base	No. 4 Common	Utility	No. 4 Common	—
Wall sheathing not required as a nailing base	No. 5 Common	Common	No. 5 Common	—
Column 1	2	3	4	5

**9.3.2.2. Lumber Grades**

(1) Except for joists, rafters, trusses and beams, visually graded lumber shall conform to the grades in Table 9.3.2.1.

**9.3.2.3. Machine Stress Rated Lumber**

(1) Machine stress rated lumber shall conform to the requirements of Subsection 4.3.1.

**9.3.2.4. OSB, Waferboard and Plywood Marking**

(1) OSB, waferboard and plywood used for roof sheathing, wall sheathing and subflooring shall be legibly identified on the face of the material indicating

(a) the manufacturer of the material,

(b) the standard to which it is produced, and

(c) that the material is of an exterior type.

**9.3.2.5. Moisture Content**

(1) Moisture content of lumber shall be not more than 19% at the time of installation.

**9.3.2.6. Lumber Dimensions**

(1) Lumber dimensions referred to in this Part are actual dimensions determined in conformance with CAN/CSA-O141, "Softwood Lumber".

**9.3.2.7. Panel Thickness Tolerances**

(1) The thickness specified in this Part for plywood, hardboard, particleboard, OSB and waferboard shall be subject to the tolerances

permitted in the standards referenced for these products unless specifically indicated herein.

### 9.3.2.8. Undersized Lumber

(1) Joist, rafter, lintel and beam members up to 5% less than the actual Canadian standard sizes are permitted to be used provided the allowable spans for the grade and species of lumber under consideration are reduced 5% from those shown in the span tables for full size members.

### 9.3.2.9. Termite and Decay Protection

(1) In localities where termites are known to occur, the clearance between structural wood elements and the ground shall be not less than 450 mm, unless the structural wood elements are pressure treated with a chemical that is toxic to termites.

(2) Structural wood elements shall be pressure treated with a preservative to resist decay where

- (a) the structural wood elements are in contact with the ground, or
- (b) the vertical clearance between structural wood elements and the ground is less than 150 mm.

(3) Where wood is required by this Article to be treated to resist termites or decay, such treatment shall be in accordance with the requirements of

- (a) CAN/CSA-O80.1-M, "Preservative Treatment of All Timber Products by Pressure Process",
- (b) CAN/CSA-O80.2-M, "Preservative Treatment of Lumber, Timber, Bridge Ties and Mine Ties by Pressure Process",
- (c) CAN/CSA-O80.9-M, "Preservative Treatment of Plywood by Pressure Process", or
- (d) CAN/CSA-O80.15-M, "Preservative Treatment of Wood for Building Foundation Systems, Basements and Crawl Spaces by Pressure Process".

### 9.3.3. Metal

#### 9.3.3.1. Sheet Metal Thickness

(1) Minimum thickness for sheet material given in this Part refer to the actual minimum thickness measured at any point of the material, and in the case of galvanized steel, include the thickness of the coating unless otherwise indicated.

#### 9.3.3.2. Galvanized Sheet Steel

(1) Where galvanized sheet steel is intended for use in locations exposed to weather or as a flashing material, it shall have a zinc coating not less than the G90 coating designation in

- (a) ASTM A 653, "Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvanealed) by the Hot-Dip Process.", or
- (b) ASTM A 924, "Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot Dip Process".

## Section 9.4. Structural Requirements

### 9.4.1. General

#### 9.4.1.1. Structural Design

(1) Except as provided in Sentence (2), Sentence 9.23.4.2.(2) and Subsections 9.4.2. to 9.4.4. and Subsection 9.40.3., structural members and their connections shall be designed in conformance with Part 4.

(2) Where structural members and their connections conform to the requirements listed elsewhere in this Part, it shall be deemed that the structural design requirements have been met.

#### 9.4.1.2. Post, Beam and Plank Construction

(1) Except for columns described in Section 9.17. and beams described in Subsection 9.23.4., post, beam and plank construction with the *loadbearing* framing members spaced more than 600 mm apart shall be designed in conformance with Subsection 4.3.1.

### 9.4.2. Specified Loads

#### 9.4.2.1. Application

(1) This Subsection applies to wood frame assemblies with clear spans not exceeding 12.20 m and members spaced not more than 600 mm apart.

#### 9.4.2.2. Design Snow Loads

(1) Except as provided in Sentences (2) and (3), specified snow loads shall be not less than the composite snow load listed in Column 12 of Table 2.5.1.1.

(2) Where the entire width of a roof does not exceed 4.3 m, the specified snow load shall be not less than the composite snow load listed in Column 13 of Table 2.5.1.1.

(3) In no case shall the specified snow load be less than 1 kPa.

(4) Bow string, arch or semi-circular roof trusses having an unsupported span greater than 6 m shall be designed in conformance with the snow load requirements in Section 4.1.7.

#### 9.4.2.3. Balconies

(1) Residential balconies not used as passageways shall be designed to carry the specified roof snow load or 1.9 kPa, whichever is greater.

#### 9.4.2.4. Attics

(1) Residential attics having limited accessibility to preclude storage of equipment or material are permitted to be designed for a total specified load of 0.5 kPa, where the total specified load is the sum of the specified *dead load* plus the specified live ceiling load.

### 9.4.3. Deflections

#### 9.4.3.1. Deflections

(1) The maximum deflection of structural members shall conform to Table 9.4.3.1.



Table 9.4.3.1.

## Maximum Deflections

Forming Part of Sentence 9.4.3.1.(1)

Structural Members	Type of Ceiling Supported	Max. Allowable Deflection as an Expressed Ratio of the Clear Span
Roof rafters, roof joists, roof beams and roof decking of plank and beam construction	No ceiling	1/180
	Other than plaster or gypsum board	1/240
	Plaster or gypsum board	1/360
Ceiling joists	Other than plaster or gypsum board	1/240
	Plaster or gypsum board	1/360
Floor beams, floor joists and floor decking	All cases	1/360
Column 1	2	3

(2) *Dead loads* need not be considered in computing deflections referred to in Sentence (1).

## 9.4.4. Foundation Conditions

## 9.4.4.1. Allowable Bearing Pressures

(1) Where footing sizes for *shallow foundations* are not determined in conformance with Section 9.15., footings are permitted to be designed using maximum *allowable bearing pressures* in Table 9.4.4.1.

Table 9.4.4.1.

## Allowable bearing Pressure for Soil or Rock

Forming Part of Sentence 9.4.4.1.(1)

Type and Condition of Soil or Rock	Maximum Allowable Bearing Pressure, kPa
Dense or compact sand or gravel	150
Loose sand or gravel	50
Dense or compact silt	100
Stiff clay	150
Firm clay	75
Soft clay	40
Till	200
Clay shale	300
Sound rock	500
Column 1	2

(2) The design procedures described in Section 4.2 are permitted to be used in lieu of the design procedures in this Subsection.

(3) The design procedures described in Section 4.2 shall be used where

(a) *deep foundations* are used,

(b) the footing size falls outside the scope of this Section, or

(c) the foundation is constructed on peat, filled ground or on sensitive clays as described in Article 9.15.1.1.

## 9.4.4.2. Foundation Capacity in Weaker Soil and Rock

(1) Where a *soil* or *rock* within a distance equal to twice the footing width below the *bearing surface* has a lower allowable bearing pressure than that at the *bearing surface* as shown in Article 9.4.4.1., the design capacity of the *foundation* shall not be greater than would cause the weakest *soil* or *rock* to be stressed beyond its *allowable bearing pressure*.

(2) In calculating subsurface pressures referred to in Sentence (1), the loads from the footings shall be assumed to be distributed uniformly over a horizontal plane within a frustum extending downward from the footing at an angle of 60° to the horizontal.

## 9.4.4.3. High Water Table

(1) Where a *foundation* bears on gravel, sand or silt, and the water table is within a distance below the *bearing surface* equal to the width of the *foundation*, the *allowable bearing pressure* shall be 50% of that determined in Article 9.4.4.1.

## 9.4.4.4. Soil Movement

(1) Where a *foundation* is located in an area in which *soil* movement caused by changes in *soil* moisture content is known to occur to the extent that it will cause significant damage to a *building*, measures shall be taken to minimize the effect of such movement on the *building*.

## 9.4.4.5. Walls Supporting Drained Earth

(1) Walls supporting drained earth are permitted to be designed for pressure equivalent to that exerted by a fluid with a density of not less than 480 kg/m<sup>3</sup> and having a depth equal to that of the retained earth.

(2) Any surcharge shall be in addition to the equivalent fluid pressure specified in Sentence (1).

## Section 9.5. Design of Areas and Spaces

## 9.5.1. General

## 9.5.1.1. Application

(1) Unless otherwise specifically indicated, this Section applies only to *dwelling units* that are intended for use on a continuing or year-round basis as the principal residence of the occupant.

## 9.5.1.2. Method of Measurement

(1) Unless otherwise indicated herein, the areas, dimensions and heights of rooms or spaces shall be measured between finished wall surfaces and between finished floor and ceiling surfaces.

## 9.5.1.3. Floor Areas

(1) Minimum floor areas specified in this Section do not include closets or built-in bedroom cabinets unless otherwise indicated.

## 9.5.1.4. Combination Rooms

(1) Two or more areas are considered as a combination room if the dividing wall occupies less than 60 per cent of the separating plane.

## 9.5.1.5. Lesser Areas and Dimensions

(1) Areas of rooms and spaces are permitted to be less than required in this Section provided it can be shown that the rooms and spaces are

adequate for their intended use, such as by the provision of built-in furniture to compensate for reduced sizes.

## 9.5.2. Barrier-Free Design

### 9.5.2.1. General

(1) Except as provided in Sentence (2) and Article 3.8.1.1., every *building* shall be designed in conformance with Section 3.8.

(2) The requirements of Section 3.8 need not be provided for houses including semi-detached houses, duplexes, triplexes, town houses, row houses and *boarding, or rooming houses* with fewer than 8 boarders or roomers.

### 9.5.2.2. Protection on Floor Areas with a Barrier-Free Path of Travel

(1) Where a barrier-free path of travel required in Article 9.5.2.1. is provided to any *storey* above the *first storey*, the requirements in Article 3.3.1.7. shall apply.

### 9.5.2.3. Reserved

## 9.5.3. Ceiling Heights

### 9.5.3.1. Heights of Rooms or Spaces

(1) Heights of rooms or spaces in *residential occupancies* and *live/work units* shall conform to Table 9.5.3.1.

Table 9.5.3.1.

#### Room Heights

Forming Part of Sentence 9.5.3.1.(1)

Room or Space	Minimum Heights
Living room or space, dining room or space, kitchen or kitchen space	2 300 mm over at least 75 per cent of the required floor area with a clear height of 2 100 mm at any point over the required area
Bedroom or bedroom space	2 300 mm over at least 50 per cent of the required area or 2 100 mm over all of the required floor area. Any part of the floor having a clear height of less than 1 400 mm shall not be considered in computing the required floor area
Basement space	2 100 mm over at least 75 per cent of the <i>basement</i> area except that under beams and ducts the clearance is permitted to be reduced to 1 950 mm
Bathroom, water-closet room or laundry area above <i>grade</i>	2 100 mm in any area where a person would normally be in a standing position
Passage, hall or main entrance vestibule and finished rooms not specifically mentioned above	2 100 mm
Column 1	2

### 9.5.3.2. Mezzanines

(1) The clear height above and below a *mezzanine* floor assembly in all *occupancies* shall be not less than 2 100 mm.

### 9.5.3.3. Storage Garages

(1) The clear height in a *storage garage* shall be not less than 2 000 mm.

## 9.5.4. Living Rooms or Spaces Within Dwelling Units

### 9.5.4.1. Areas of Living Rooms and Spaces

(1) Living areas within *dwelling units*, either as separate rooms or in combination with other spaces, shall have an area not less than 13.5 m<sup>2</sup>.

(2) Where the area of a living space is combined with a kitchen and dining area, the living area alone in a *dwelling unit* that contains sleeping accommodation for not more than 2 persons shall be not less than 11 m<sup>2</sup>.

## 9.5.5. Dining Rooms or Spaces Within Dwelling Units

### 9.5.5.1. Area of Dining Rooms or Spaces

(1) A dining space in combination with other space shall have an area of not less than 3.25 m<sup>2</sup>.

(2) Dining rooms not combined with other space shall have a minimum area of 7 m<sup>2</sup>.

## 9.5.6. Kitchens Within Dwelling Units

### 9.5.6.1. Kitchen Areas

(1) Kitchen areas within *dwelling units* either separate from or in combination with other spaces, shall have an area of not less than 4.2 m<sup>2</sup> including the area occupied by the base cabinets, except that in *dwelling units* containing sleeping accommodation for not more than 2 persons, the minimum area shall be 3.7 m<sup>2</sup>.

## 9.5.7. Bedrooms or Spaces in Dwelling Units and Dormitories

### 9.5.7.1. Areas of Bedrooms

(1) Except as provided in Articles 9.5.7.2. and 9.5.7.3., bedrooms in *dwelling units* shall have an area not less than 7 m<sup>2</sup> where built-in cabinets are not provided and not less than 6 m<sup>2</sup> where built-in cabinets are provided.

### 9.5.7.2. Areas of Master Bedrooms

(1) Except as provided in Article 9.5.7.3., not less than one bedroom in every *dwelling unit* shall have an area of not less than 9.8 m<sup>2</sup> where built-in cabinets are not provided and not less than 8.8 m<sup>2</sup> where built-in cabinets are provided.

### 9.5.7.3. Areas of Combination Bedrooms

(1) Bedroom spaces in combination with other spaces in *dwelling units* shall have an area not less than 4.2 m<sup>2</sup>.

### 9.5.7.4. Areas of Other Sleeping Rooms

(1) Sleeping rooms other than in *dwelling units* shall have an area not less than 7 m<sup>2</sup> per person for single *occupancy* and 4.6 m<sup>2</sup> per person for multiple *occupancy*.

**9.5.7.5. Recreational Camps**

(1) *Recreational camps* shall have an area in the sleeping quarters of at least 3.72 m<sup>2</sup> per camper or, if double or triple tier bunk units are used, 2.79 m<sup>2</sup> per camper.

**9.5.7.6. Camps for Housing Workers**

(1) A *camp for housing of workers* shall have a minimum area of 3.72 m<sup>2</sup> per employee in every room used for sleeping purposes.

**9.5.8. Bathrooms and Water-Closet Rooms****9.5.8.1. Space to Accommodate Fixtures**

(1) In every *dwelling unit* an enclosed space of sufficient size shall be provided to accommodate a water closet, lavatory and bathtub or shower stall.

**9.5.9. Hallways****9.5.9.1. Width of Hallway Within Dwelling Unit**

(1) The unobstructed width of a hallway within a *dwelling unit* shall be at least 860 mm, except that the hallway width is permitted to be 710 mm where

- (a) there are only bedrooms and bathrooms at the end of the hallway furthest from the living area, and
- (b) a second *exit* is provided
  - (i) in the hallway near the end furthest from the living area, or
  - (ii) in each bedroom served by the hallway.

**Section 9.6. Doors****9.6.1. General****9.6.1.1. Application**

(1) This Section applies to doors, to glazed areas in doors and to sidelights for doors.

**9.6.2. Required Doors****9.6.2.1. Doors for Dwelling Units**

(1) A door shall be provided at each entrance to a *dwelling unit* and to each room containing a water closet within a *dwelling unit*.

**9.6.3. Doorway Sizes****9.6.3.1. Doorway Opening Sizes**

(1) Except as provided in Articles 9.6.3.3. and 9.9.6.4., doorway openings within dwelling units shall be designed to accommodate at least the door sizes in Table 9.6.3.1. for swing-type doors or folding doors.

**Table 9.6.3.1.****Minimum Size of Door**

Forming Part of Sentence 9.6.3.1.(1)

At Entrance to:	Minimum Width, mm	Minimum Height, mm
<i>Dwelling unit</i> (required entrance) Vestibule or entrance hall	810	1 980
Stairs to a floor level that contains a finished space All doors in not less than one line of passage from the exterior to the <i>basement</i> Utility rooms	810	1 980
Walk-in closet	610	1 980
Bathroom, water-closet room, shower room <sup>(1)</sup>	610	1 980
Rooms located off hallways that are permitted to be 710 mm wide	610	1 980
Rooms not mentioned above, exterior balconies	760	1 980
Column 1	2	3

**Note to Table 9.6.3.1.:**<sup>(1)</sup> See Article 9.6.3.3.**9.6.3.2. Doors to Public Water-Closet Rooms**

(1) Doors to public water-closet rooms shall be not less than 810 mm wide and 2 030 mm high.

**9.6.3.3. Doors to Bathrooms**

(1) Where a *barrier-free* path of travel conforming to Section 3.8. is provided into a *suite of residential occupancy* and where a bathroom within the *suite* is at the level of the *suite* entrance door, the doorway to such bathroom and to each bedroom at the same level as such bathroom shall have, when the door is in the open position, a clear width of not less than

- (a) 760 mm where the door is served by a corridor or space not less than 1 060 mm wide, and
- (b) 810 mm where the door is served by a corridor or space less than 1 060 mm wide.

**9.6.4. Door Sill Height****9.6.4.1. Height of Door Sills Above Floors or Ground**

(1) Doors in *buildings of residential occupancy* shall conform to Sentence (2) where

- (a) the top surface of the sill of a door, including sliding doors, is located less than 200 mm above the finished floor on one side of the door, and
- (b) the finished floor referred to in Clause (a) is more than 600 mm above the floor, landing, stair tread or ground level on the other side of the door.

(2) Doors described in Sentence (1) shall be

- (a) permanently adjusted to prevent an opening greater than



(i) 200 mm where the height described in Clause (1)(b) is not more than 1 800 mm, and

(ii) 100 mm where the height described in Clause (1)(b) is greater than 1 800 mm, or

(b) be protected by a guard in accordance with Section 9.8.

## 9.6.5. Exterior Doors

### 9.6.5.1. Exterior Wood Doors

(1) Exterior wood doors shall conform to CAN/CSA-O132.2-M, "Wood Flush Doors".

(2) Each door described in Sentence (1) shall indicate legibly

(a) the name of the manufacturer,

(b) the standard to which it is produced, and

(c) that it is of an exterior type.

### 9.6.5.2. Sliding Doors

(1) Sliding doors shall conform to CAN/CGSB 82.1-M, "Sliding Doors".

## 9.6.5.3. Insulated Steel Doors

(1) Insulated steel doors shall conform to CAN/CGSB-82.5-M, "Insulated Steel Doors".

### 9.6.5.4. Air Infiltration for Exterior Swing Type Doors

(1) Except where a door is weather-stripped on all edges, and protected with a storm door, or by an enclosed unheated space, an exterior swing type door assemblies shall have a rate of air infiltration not exceeding  $11.6 \times 10^{-4}$  m<sup>3</sup>/s for each metre of crack length when tested at a pressure differential of 75 Pa in conformance with ASTM E283, "Standard Method of Test for Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors".

### 9.6.5.5. Air Infiltration for Patio Type Sliding Doors

(1) A patio type sliding glass door shall have a rate of air infiltration not exceeding  $38 \times 10^{-4}$  m<sup>3</sup>/s for each square metre of door area when tested in conformance with ASTM E283.

## 9.6.5.6. Weather Stripping

(1) In buildings of *residential occupancy* weather stripping shall be provided around all exterior doors except garage doors.

## 9.6.6. Glass

### 9.6.6.1. Maximum Area of Glass

(1) The maximum area of individual panes of glass for doors shall conform to Table 9.6.6.1.

Table 9.6.6.1.

### Maximum Glass Area for Doors

Forming Part of Sentence 9.6.6.1.(1)

Glass Thickness, mm	Maximum Glass Area, m					
	Type of Glass					
	Annealed	Annealed Multiple-Glazed Factory-Sealed Units	Laminated	Wired	Heat Strengthened	Fully Tempered
3	0.50	0.70	(2)	(2)	1.00	1.00
4	1.00	1.50	(2)	(2)	1.50	4.00
5	1.50	1.50	(2)	(2)	1.50	No limit
6	1.50	1.50	1.20	1.00	1.50	No limit
Column 1	2	3	4	5	6	7

#### Notes to Table 9.6.6.1.

(2) Not generally available.

### 9.6.6.2. Glass in Doors and Sidelights

(1) Glass in doors and sidelights for doors shall conform to Sentence 9.7.3.1.(1).

(2) Glass in sidelights greater than 500 mm wide that could be mistaken for doors, glass in storm doors and glass in sliding doors within or at every entrance to a dwelling unit and in public areas shall be

(a) safety glass of the tempered or laminated type conforming to CAN/CGSB-12.1-M, "Tempered or Laminated Safety Glass", or

(b) wired glass conforming to CAN/CGSB-12.11-M, "Wired Safety Glass".

(3) Except as provided in Article 9.7.5.2., glass in entrance doors to dwelling units and in public areas other than the entrance door described in Sentence (2), shall be safety glass or wired glass of the type described in Sentence (2) where the glass area exceeds 0.5 m<sup>2</sup> and extends to less than 900 mm from the bottom of the door.

### 9.6.6.3. Mirrored Glass Doors

(1) Mirrored glass doors are permitted to be used only at the entrance to clothes closets and shall conform to the requirements of CAN/CGSB-82.6-M, "Doors, Mirrored Glass, Sliding or Folding Wardrobe".

(2) Mirrored glass doors reinforced with a film backing shall meet the impact resistance requirements specified in CAN2-12.5-M, "Mirrors, Silvered".

#### 9.6.6.4. Visibility of Glass or Transparent Doors

(1) Except as provided in Article 9.7.5.3., every glass or transparent door accessible to the public shall be equipped with hardware, bars or other permanent fixtures designed so that the existence and position of such door will be readily apparent.

#### 9.6.6.5. Glass for Shower or Bathtub Enclosures

(1) Glass other than safety glass shall not be used for a shower or bathtub enclosure.

#### 9.6.7. Thermal Breaks

##### 9.6.7.1. Application

(1) This Subsection applies to doors and sidelights separating heated space from unheated space or the exterior.

##### 9.6.7.2. Required Thermal Breaks

(1) Except as provided in Sentence (2), metal frames for doors, for glazing in doors, and for sidelights for doors shall incorporate a thermal break.

(2) Thermal breaks need not be installed in accordance with Sentence (1) where the doors are

- (a) garage doors,
- (b) storm doors, or
- (c) doors that are required to have a *fire-resistance rating*.

#### 9.6.8. Resistance to Forced Entry

##### 9.6.8.1. Application

(1) Except as permitted in Sentence (2), this Subsection applies to

- (a) swinging entrance doors to dwelling units,
- (b) swinging doors between dwelling units and attached garages or other ancillary spaces, and
- (c) swinging doors which provide access directly or indirectly from a storage garage to a dwelling unit.

(2) Sentence (1) does not apply to exterior doors to garages and to other ancillary spaces.

##### 9.6.8.2. Wood Doors

(1) Except as permitted in Article 9.6.8.10., wood doors as described in Sentence 9.6.8.1.(1) shall

- (a) be solid core or stile and rail type,
- (b) be not less than 45 mm thick, and
- (c) if of the stile and rail panel type, have a panel thickness of not less than 19 mm, with a total panel area not more than half of the door area.

##### 9.6.8.3. Deadbolt Lock

(1) Except as permitted in Article 9.6.8.10., doors described in Sentence 9.6.8.1.(1) shall be provided with a deadbolt lock with a cylinder having no fewer than 5 pins and a bolt throw not less than 25 mm, protected with a solid or hardened free-turning ring or bevelled cylinder housing.

##### 9.6.8.4. Double Doors

(1) Except as permitted in Article 9.6.8.10., an inactive leaf in double doors used in locations specified in Sentence 9.6.8.1.(1) shall be provided with heavy duty bolts top and bottom having an engagement of not less than 15 mm.

##### 9.6.8.5. Fastening of Hinges

(1) Except as permitted in Article 9.6.8.10., hinges for doors in Sentence 9.6.8.1.(1) shall be fastened to wood doors with wood screws not less than 25 mm long and to wood frames with wood screws such that at least two screws per hinge penetrate not less than 30 mm into solid wood.

(2) Except as permitted in Article 9.6.8.10., hinges for doors in Sentence 9.6.8.1.(1) shall be fastened to metal doors and metal frames with machine screws not smaller than No. 8 and not less than 10 mm long.

##### 9.6.8.6. Fastening of Strikeplates

(1) Except as permitted in Article 9.6.8.10., strikeplates for deadbolts described in Sentence 9.6.8.3. shall be fastened to wood frames with wood screws that penetrate not less than 30 mm into solid wood.

(2) Except as permitted in Article 9.6.8.10., strikeplates for deadbolts in Sentence 9.6.8.3. shall be fastened to metal frames with machine screws not smaller than No. 8 and not less than 10 mm long.

##### 9.6.8.7. Outward Swinging Doors

(1) Except for storm doors or screen doors, doors described in Sentence 9.6.8.1.(1) which swing outward shall be provided with hinges or pins so that the doors cannot be removed when they are in the closed position.

##### 9.6.8.8. Door Viewer

- (1) Main entrance doors to *dwelling units* shall be provided with
- (a) a door viewer or transparent glazing in the door, or
  - (b) a sidelight.

##### 9.6.8.9. Solid Blocking

(1) Solid blocking shall be provided on both sides at the lock height between the jambs for doors described in Sentence 9.6.8.1.(1) and the structural framing so that the jambs will resist spreading by force.

##### 9.6.8.10. Alternate Test Procedure

(1) Doors, frames and hardware which conform to a security level of at least Grade 10 as described in the Annex to ASTM F476, "Standard Test Methods for Security of Swinging Door Assemblies", are not required to conform to Articles 9.6.8.2. to 9.6.8.6.

### Section 9.7. Windows and Skylights

#### 9.7.1. General

##### 9.7.1.1. Application

(1) Windows shall conform to the requirements of this Section.

**9.7.1.2. Minimum Window Areas**

(1) Except as required in Article 9.7.1.3. and Sentence (3), the minimum window glass area for rooms in *buildings of residential occupancy* or which are used for sleeping shall conform to Table 9.7.1.2.

**Table 9.7.1.2.****Glass Areas for Rooms of Residential Occupancy**

Forming Part of Sentence 9.7.1.2.(1)

Location	Minimum Unobstructed Glass Area	
	With No Electric Lighting	With Electric Lighting
Laundry, <i>basement</i> recreation room, unfinished <i>basement</i>	4% of area served	Windows not required
Water-closet room	0.37 m <sup>2</sup>	Windows not required
Kitchen, kitchen space, kitchen alcove	10% of area served	Windows not required
Living rooms and dining rooms	10% of area served	10% of area served
Bedrooms and other finished rooms not mentioned above	5% of area served <sup>(1)</sup>	5% of area served <sup>(1)</sup>
Column 1	2	3

**Note to Table 9.7.1.2.:**<sup>(1)</sup> See Article 9.7.1.3.

(2) The unobstructed glass area of a door or skylight is considered equivalent to that of a window.

(3) Work areas in *live/work units* shall conform to Clause 3.7.2.1.(2)(a).

**9.7.1.3. Bedroom Windows**

(1) Except where a door on the same floor level as the bedroom provides direct access to the exterior, every floor level containing a bedroom in a *suite* shall be provided with

- (a) at least 1 outside window that can be opened from the inside without the use of tools, and
- (b) each such window shall provide an individual, unobstructed open portion having a minimum area of 0.35 m<sup>2</sup> with no dimension less than 380 mm.

(2) Except for *basement* areas, the window described in Sentence (1) shall have a maximum sill height of 1 000 mm above the floor.

(3) When sliding windows are used, the minimum dimension described in Sentence (1) shall apply to the openable portion of the window.

(4) Where the sleeping area within a *live/work unit* is on a *mezzanine* with no obstructions more than 1 070 mm above the floor, the window required in Sentence (1) may be provided on the main level of the *live/work unit* provided the *mezzanine* is not more than 25% of the area of the *live/work unit* or 20 m<sup>2</sup> whichever is less and an unobstructed direct path of travel is provided from the *mezzanine* to this window.

**9.7.1.4. Window Opening into a Window-Well**

(1) Where a window required in Article 9.7.1.3. opens into a window-well, a clearance of not less than 550 mm shall be provided in front of the window.

(2) Where the sash of a window referred to in Sentence (1) swings towards the window-well, the operation of the sash shall not reduce the clearance in a manner that would restrict escape in an emergency.

**9.7.1.5. Termites**

(1) In localities where termites are known to occur and where windows or other openings at or below *grade* contain wood elements, the bottom of window wells or adjacent ground shall be at least 150 mm below the nearest wood unless the wood is pressure treated with a chemical toxic to termites in accordance with Article 9.3.2.9.

**9.7.1.6. Height of Window Sills above Floors or Ground**

(1) Except as provided in Sentence (2), openable windows in *buildings of residential occupancy* shall be protected by

- (a) a guard in accordance with Section 9.8., or
- (b) a mechanism capable of controlling the free swinging or sliding of the openable part of the window so as to limit any clear unobstructed opening to not more than 100 mm measured either vertically or horizontally where the other dimension is greater than 380 mm.

(2) Windows need not be protected in accordance with Sentence (1) where

- (a) the window serves a *dwelling unit* that is not located above another *suite*,
- (b) the only opening greater than 100 mm by 380 mm is a horizontal opening at the top of the window,
- (c) the top surface of the window sill is located more than 480 mm above the finished floor on one side of the window, or
- (d) the window is located in a room or space with the finished floor described in Clause (c) located less than 1 800 mm above the floor or ground on the other side of the window.

**9.7.1.7. Air Infiltration of Exterior Windows**

(1) Air infiltration of exterior windows shall not exceed .775 dm<sup>3</sup>/s for each metre of sash crack when tested at a pressure differential of 75 Pa in conformance with ASTM E283, "Standard Method of Test Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors".

**9.7.2. Window Standards****9.7.2.1. Window Standard**

(1) Windows shall conform with CAN/CSA-A440-M, "Windows", but need not meet air tightness, water tightness and wind load resistance requirements more stringent than those for classifications A1, B1 and C1 in CAN/CSA-A440-M.

**9.7.3. Glass****9.7.3.1. Glass Standards**

(1) Glass shall conform to

- (a) CAN/CGSB-12.1-M, "Tempered or Laminated Safety Glass",



- (b) CAN/CGSB-12.2-M, "Flat, Clear Sheet Glass",
- (c) CAN/CGSB-12.3-M, "Flat, Clear Float Glass",
- (d) CAN/CGSB-12.4-M, "Heat-Absorbing Glass",
- (e) CAN/CGSB-12.8-M, "Insulating Glass Units",
- (f) CAN/CGSB-12.10, "Glass, Light and Heat/Reflecting", or
- (g) CAN/CGSB-12.11-M, "Wired Safety Glass".

### 9.7.3.2. Structural Design of Glass

(1) Glass in windows, sloped glazing and skylights shall be designed in conformance with CAN/CGSB-12.20-M, "Structural Design of Glass for Buildings".

### 9.7.4. Caulking and Glazing

#### 9.7.4.1. Sealing Compound

(1) The sealing compound used to seal the glass component of a factory-sealed double-glazed unit to the sash component shall be compatible with the material used to edge seal the glass component.

#### 9.7.4.2. Caulking Compound

(1) Caulking shall be provided between window frames or trim and the exterior siding or masonry in conformance with Subsection 9.27.4.

### 9.7.5. Protection of Windows in Public Areas

#### 9.7.5.1. Transparent Panels

(1) Except as provided in Article 9.7.5.2., transparent panels that could be mistaken as a *means of egress* shall be protected by barriers or railings.

#### 9.7.5.2. Sliding Glass Partitions

(1) Sliding glass *partitions* which separate a *public corridor* from an adjacent *occupancy* and which are open during working hours need not conform to Article 9.7.5.1. and Sentence 9.6.6.2.(3), except that such *partitions* shall be suitably marked to indicate their existence and position.

#### 9.7.5.3. Windows in Exit Stairways

(1) Windows in *exit* stairways that extend to less than 1 070 mm above the landing shall be

- (a) protected by *guards*, in accordance with Section 9.8., or
- (b) non-operable and designed to withstand the specified loads for balcony *guards* as provided in Part 4.

#### 9.7.5.4. Windows above the Second Storey

(1) Windows in public areas that extend to less than 1 000 mm from the floor and are located above the second *storey* in *buildings* of *residential occupancy* shall be

- (a) protected by *guards* in accordance with Section 9.8., or
- (b) non-openable and designed to withstand the lateral design loads for balcony *guards* in Part 4.

### 9.7.6. Resistance to Forced Entry

#### 9.7.6.1. Forced Entry Through Windows

(1) In *dwelling units*, windows, any part of which is located within 2 000 mm of adjacent ground level, shall conform to the requirements for resistance to forced entry as described in Clause 10.13 of CAN/CSA-A440-M, "Windows".

### 9.7.7. Skylights

#### 9.7.7.1. Plastic Skylights

(1) Plastic skylights shall conform to CAN/CGSB- 63.14-M, "Plastic Skylights".

#### 9.7.7.2. Glass Skylights

(1) Factory-built glass skylights shall meet the performance requirements of CAN/CGSB-63.14-M, "Plastic Skylights".

## Section 9.8. Stairs, Ramps, Handrails and Guards

### 9.8.1. Scope

#### 9.8.1.1. Application

(1) This Section applies to the design and construction of interior and exterior stairs, steps, ramps, railings and *guards*.

#### 9.8.1.2. Exit Stairs

(1) Where the stair forms part of an *exit*, the appropriate requirements in Sections 9.9. and 9.10. shall also apply.

#### 9.8.1.3. Escalators and Moving Walkways

(1) Escalators and moving walkways shall conform to the appropriate requirements in Part 3.

### 9.8.2. General

#### 9.8.2.1. Uniform Treads and Risers

(1) Treads and risers shall have uniform rise and run in any one flight.

(2) A stairway that is not an *exit* is permitted to contain both a curved and straight portions of stairs in a single flight provided each curved portion conforms to Article 9.8.5.2. and the riser height is uniform throughout the flight.

#### 9.8.2.2. Minimum Number of Risers

(1) Except for interior stairs within a *dwelling unit*, at least 3 risers shall be provided for interior stairs.

#### 9.8.2.3. Interior Stairs Extending Through the Roof

(1) Interior stairways extending through the roof of a *building* shall be protected from ice and snow.

### 9.8.3. Stair Dimensions

#### 9.8.3.1. Rise, Run and Tread Depth of Stairs

(1) Except as provided in Subsection 9.8.5., the rise, run and tread depth of stairs shall conform to Table 9.8.3.1.

Table 9.8.3.1.

**Rise, Run and Tread Depth of Stairs**

Forming Part of Sentence 9.8.3.1.(1)

Stair Type	Rise, mm		Run, mm		Tread Depth, mm	
	max.	min.	max.	min.	max.	min.
Service and <i>mezzanines</i> in <i>live/work units</i> <sup>(1)</sup>	no limit	125	355	no limit	355	no limit
Private <sup>(2)</sup>	200	125	355	210	355	235
Public <sup>(3)</sup>	200	125	355	230	355	250
Column 1	2	3	4	5	6	7

**Notes to Table 9.8.3.1.:**

- (1) Service stairs serve areas used only as *service rooms* or *service spaces* and stairs that serve *mezzanines* not exceeding 20 m<sup>2</sup> within *live/work units*.  
 (2) Private stairs are interior stairs within *dwelling units* and exterior stairs serving a single *dwelling unit*.  
 (3) Public stairs are all stairs not described as service stair or private stairs.

**9.8.3.2. Nosings**

- (1) Curved or bevelled leading edges of treads

- (a) shall not reduce the required tread depth by more than 15 mm, and

- (b) shall not, in any case, exceed 25 mm horizontally.

**9.8.3.3. Stair Width**

- (1) *Exit* stairs and stairs used by the public shall have a width, measured between wall faces or *guards*, of not less than 900 mm.

- (2) At least 1 stairway between each floor level in a *dwelling unit* shall have a width between wall faces of not less than 860 mm.

**9.8.3.4. Headroom**

- (1) The headroom measured vertically from a line drawn through the outer edges of the nosings shall be at least 1 950 mm for stairs located in *dwelling units* and 2 050 mm for all other stairs.

**9.8.4. Landings****9.8.4.1. Dimensions of Landings**

- (1) Landings shall be at least as wide and as long as the width of stairs in which they occur, except that

- (a) the length of landing for exterior stairs serving not more than 1 *dwelling unit* need not exceed 900 mm, and

- (b) the length of landing for all other stairs in a straight run need not exceed 1 100 mm.

**9.8.4.2. Required Landings**

- (1) Where a door swings towards a stair, the full arc of its swing shall be over a landing.

- (2) Except as provided in Sentence (3), a landing shall be provided at the top and bottom of each flight of interior stairs and where a doorway occurs in a stairway.

- (3) Where a door at the top of a stair in a *dwelling unit* swings away from the stair, no landing is required between the doorway and the stairs.

- (4) A landing shall be provided at the top of all exterior stairs, except that a landing is permitted to be omitted at a secondary entrance to a *building* containing a single *dwelling unit* provided the stair does not contain more than 3 risers.

**9.8.4.3. Height between Landings**

- (1) The vertical height between any landings shall not exceed 3.7 m.

**9.8.4.4. Height over Landings**

- (1) The clear height over landings shall be not less than 1 950 mm in *dwelling units* and 2 050 mm for other landings.

**9.8.5. Curved Stairs and Winders****9.8.5.1. Curved Stairs in Exits**

- (1) Curved stairs used in *exits* shall conform to the requirements of Article 3.4.6.8.

**9.8.5.2. Curved Stairs not in Exits**

- (1) Except as permitted in Article 9.8.5.3., a curved stair not required as an *exit* shall have an average run of not less than 200 mm and a minimum run of 150 mm and shall have risers conforming to Article 9.8.3.1.

**9.8.5.3. Winders**

- (1) Stairs within *dwelling units* are permitted to contain winders that converge to a centre point provided

- (a) the winders turn through an angle of not more than 90°,

- (b) individual treads turn through an angle of not less than 30° or not more than 45°, and

- (c) adjacent winders turn through the same angle.

- (2) Where more than one set of winders described in Sentence (1) is provided in a single stairway between adjacent floor levels, such winders shall be separated in plan by at least 1 200 mm.

**9.8.6. Pedestrian Ramps****9.8.6.1. Ramps in a Barrier-Free Path of Travel**

(1) Ramps in a *barrier-free* path of travel shall conform to the requirements in Section 3.8.

**9.8.6.2. Maximum Slope**

(1) Except as provided in Article 9.8.6.1., the slope of interior pedestrian ramps shall be not more than

- (a) 1 in 10 for *residential occupancies*,
- (b) 1 in 6 for *mercantile or industrial occupancies*, and
- (c) 1 in 8 for all other *occupancies*.

(2) Except as provided in Article 9.8.6.1., the slope of every exterior ramp shall be not more than 1 in 10.

**9.8.6.3. Level Areas on Ramps**

(1) Except as provided in Article 9.8.6.1., where a doorway or stairway opens onto the side of a ramp, there shall be a level area extending across the full width of the ramp and for a distance of not less than 300 mm on either side of the wall opening.

(2) Except as provided in Article 9.8.6.1., where a doorway or stairway opens onto the end of a ramp, there shall be a level area extending across the full width of the ramp and along it for not less than 900 mm.

**9.8.7. Handrails****9.8.7.1. Required Handrails**

(1) Except as permitted in Sentences (2) and (3), a handrail shall be provided on

- (a) at least one side of stairs less than 1 100 mm in width,
- (b) two sides of stairs 1 100 mm in width or greater, and
- (c) two sides of a curved stair used as an *exit*.

(2) Handrails are not required for stairs within *dwelling units* having not more than 2 risers, or for exterior stairs having not more than 3 risers and serving not more than one *dwelling unit*.

(3) Only one handrail is required on exterior stairs having more than 3 risers provided such stairs serve not more than one *dwelling unit*.

**9.8.7.2. Continuous Handrail**

(1) Except as provided in Sentence (2), at least one handrail shall be continuous throughout the length of the stairway, including landings, except where interrupted by

- (a) doorways, or
- (b) newel posts at changes in direction.

(2) For stairs serving only 1 *dwelling unit*, at least one handrail shall be continuous throughout the length of the stairway except where interrupted

- (a) by doorways,

- (b) by newel posts,
- (c) at landings, or
- (d) at changes in direction.

**9.8.7.3. Termination of Handrails**

(1) Handrails shall be terminated in a manner that will not obstruct pedestrian travel or create a hazard.

(2) Except for stairways serving only 1 *dwelling unit*, at least one handrail at the sides of a stairway or ramp shall extend horizontally not less than 300 mm beyond the top and bottom of the stairway or ramp.

**9.8.7.4. Height of Handrails**

(1) Height of handrails on stairs and ramps shall be measured vertically from a line drawn

- (a) through the outside edges of the stair nosing, or
- (b) from the surface of the ramp, floor or landing below the handrail.

(2) Except as provided in Sentences (3) and (4), the height of handrails on stairs and ramps shall be

- (a) not less than 800 mm, and
- (b) not more than 965 mm.

(3) Where *guards* are required, handrails on landings are permitted to be not more than 1 070 mm in height.

(4) Handrails not meeting the requirements of Sentences (2) and (3) are permitted provided they are installed in addition to the required handrails.

**9.8.7.5 Ergonomic Design**

(1) A clearance of not less than 40 mm shall be provided between each handrail and the wall to which it is fastened.

(2) Required handrails shall be constructed so as to be continually graspable along their entire length with no obstruction on or above them to break a handhold, except where the handrail is interrupted by newels at changes in direction.

**9.8.7.6. Projections into Stairway**

(1) Handrails and constructions below handrails, including handrail supports and stair stringers shall not project more than 100 mm into the required width of a stairway.

**9.8.7.7. Handrails for Ramps**

(1) Where ramps are used in lieu of stairs, the handrail requirements for stairs in Articles 9.8.7.1. to 9.8.7.8. shall apply where the gradient exceeds 1 in 10.

**9.8.7.8. Attachment of Handrails**

(1) Handrails shall be attached to wood studs, wood blocking, steel studs or masonry at points spaced not more than 1 200 mm apart.

(2) Attachment to wood studs and wood blocking required in Sentence (1) shall consist of not less than 2 wood screws at each point, penetrating not less than 32 mm into solid wood.

**9.8.8. Guards****9.8.8.1. Required Guards**

(1) Except for the edges of floor pits in *repair garages* and loading docks, every surface to which access is provided for other than



maintenance purposes, including but not limited to exterior landings, porches, decks, balconies, *mezzanines*, galleries, raised *walkways* and roofs, shall be protected by a *guard* on each side which is not protected by a wall and where there is a difference in elevation to adjacent surfaces of more than 600 mm.

(2) Every exterior stair with more than 6 risers and every ramp shall be protected with *guards* on all open sides where the difference in elevation between the adjacent ground level and the stair or ramp exceeds 600 mm.

(3) When an interior stair has more than 2 risers, the sides of the stair and the landing or floor level around the stair well shall be enclosed by walls, or be protected by *guards*, except that a stair to an unfinished *basement* in a *dwelling unit* is permitted to have 1 unprotected side.

#### 9.8.8.2. Height of Guards

(1) Except as provided in Sentences (2) to (4), all *guards*, including those for balconies, shall be at least 1 070 mm high.

(2) *Guards* for porches, decks, landings and balconies are permitted to be a minimum of 900 mm high where

(a) the walking surface of the porch, deck, landing or balcony served by the *guard* is not more than 1 800 mm above the finished ground level, and

(b) the porch, deck, landing or balcony serves not more than one *dwelling unit*.

(3) Except as provided in Sentence (4), *guards* for stairs shall be not less than 900 mm high measured vertically from a line drawn through the outside edges of the stair nosings, and 1 070 mm high at landings.

(4) *Guards* for stairs within *dwelling units* and stairs serving not more than one *dwelling unit* shall be not less than 800 mm measured vertically above a line drawn through the outside edges of stair nosings, and not less than 900 mm above landings.

(5) All required *guards* within *dwelling units* other than those described in Sentence (4) shall be not less than 900 mm high.

#### 9.8.8.3. Guards for Floors and Ramps in Garages

(1) Except for floors of garages referred to in Section 9.35., a continuous curb not less than 150 mm in height and a *guard* not less than 1 070 mm above the floor level shall be provided at every opening through a garage floor and around the perimeter of such floor and ramps where the exterior walls are omitted and where the top of the floor is 600 mm or more above an adjacent ground or floor level.

#### 9.8.8.4. Openings in Guards

(1) Except as provided in Sentence (2), openings through any *guard* which is required by Article 9.8.8.1. shall be of a size which will prevent the passage of a spherical object having a diameter of more than 100 mm unless it can be shown that the location and size of openings which exceed this limit do not represent a hazard.

(2) Openings through any *guard* which is required by Article 9.8.8.1. and which is installed in a *building of industrial occupancy* shall be of a size which will prevent the passage of a spherical object having a diameter of more than 200 mm unless it can be shown that the location and size of such openings which exceed this limit do not represent a hazard.

(3) Openings through any *guard* which is not required by Article 9.8.8.1. and which serves a *building* of other than *industrial occupancy*, shall be of a size which

(a) will prevent the passage of a spherical object having a diameter of more than 100 mm, or

(b) will permit the passage of a spherical object having a diameter of more than 200 mm unless it can be shown that the location and size of openings which exceed these limits do not represent a hazard.

#### 9.8.8.5. Design to Prevent Climbing

(1) *Guards* required by Article 9.8.8.1. and serving *buildings of residential occupancy* shall be designed so that no member, attachment or opening located between 100 mm and 900 mm above the floor or walking surface protected by the *guard* will facilitate climbing.

#### 9.8.8.6. Guards for Ramps

(1) *Guards* for ramps including vehicular ramps shall conform to the requirements for *guards* for stairs in Articles 9.8.8.2. and 9.8.8.4.

#### 9.8.8.7. Glass in Guards

(1) Glass in *guards* shall be

(a) safety glass of the laminated or tempered type conforming to CAN/CGSB-12.1-M, "Tempered or Laminated Safety Glass", or

(b) wired glass conforming to CAN/CGSB-12.11-M, "Wired Safety Glass".

#### 9.8.8.8. Construction of Guards

(1) Except as permitted in Sentence 2, *guards* shall conform to the loading criteria in Article 4.1.10.1.

(2) Guards constructed in accordance with the requirements in the Supplementary Guidelines shall be deemed to satisfy the requirements of Sentence 9.1.

#### 9.8.9. Construction

##### 9.8.9.1. Exterior Concrete Stair

(1) Exterior concrete stairs with more than 2 risers and 2 treads shall be

(a) supported on unit masonry or concrete walls or piers not less than 150 mm in cross section, or

(b) cantilevered from the main *foundation* wall.

(2) Stairs described in Sentence (1), when cantilevered from the *foundation* wall, shall be constructed and installed in conformance with Subsection 9.8.10.

(3) The depth below ground level for *foundations* for exterior steps shall conform to the requirements in Section 9.12.

##### 9.8.9.2. Exterior Wood Steps

(1) Exterior wood steps shall not be in direct contact with the ground unless suitably treated with a wood preservative.

##### 9.8.9.3. Wooden Stair Stringers

(1) Wooden stair stringers shall

- (a) have a minimum effective depth of 90 mm and an over-all depth of not less than 235 mm,
- (b) be supported and secured top and bottom,
- (c) be not less than 25 mm actual thickness if supported along their length and 38 mm actual thickness if unsupported along their length, and
- (d) except as permitted in Sentence (2), be spaced not more than 900 mm o.c. for stairs serving not more than one *dwelling unit*, and 600 mm o.c. in other stairs.

(2) For stairs serving not more than one *dwelling unit* where risers support the front portion of the tread, the space between stringers shall be not more than 1 200 mm.

#### 9.8.9.4. Treads

(1) Stair treads lumber, plywood or O-2 grade OSB within *dwelling units* shall be not less than 25 mm actual thickness, except that if open risers are used and the distance between stringers exceeds 750 mm, the treads shall be not less than 38 mm actual thickness.

(2) Stair treads of plywood or O-2 grade OSB shall have their face grain or direction of face orientation at right angles to the stringers.

#### 9.8.9.5. Finish for Treads and Landings

(1) The finish for treads and landings of interior stairs in *dwelling units*, other than stairs to unfinished *basements*, shall consist of hardwood, vertical grain softwood, resilient flooring or other material providing equivalent performance.

(2) Treads and landings of interior and exterior stairs and ramps, other than those within *dwelling units*, shall have a slip-resistant finish or be provided with slip-resistant strips which extend not more than 1 mm above the surface.

#### 9.8.10. Cantilevered Precast Concrete Steps

##### 9.8.10.1. Design

(1) Exterior concrete steps and their anchorage system that are cantilevered from a *foundation* wall shall be designed and installed to support the loads to which they may be subjected.

##### 9.8.10.2. Anchorage

(1) Cantilevered concrete steps in Article 9.8.10.1. shall be anchored to concrete *foundation* walls at least 200 mm thick.

##### 9.8.10.3. Prevention of Damage Due to Frost

(1) Suitable precautions shall be taken during backfilling and grading operations to ensure that subsequent freezing of the *soil* will not cause uplift forces on the underside of cantilevered concrete steps to the extent that the steps or the walls to which they are attached will be damaged.

### Section 9.9. Means of Egress

#### 9.9.1. Scope

##### 9.9.1.1. Application

(1) Stairways, handrails and *guards* in a *means of egress* shall conform to the requirements in Section 9.8. as well as to the requirements in this Section.

#### 9.9.1.2. Fire Protection

(1) *Flame-spread ratings*, *fire-resistance ratings* and *fire-protection ratings* shall conform to Section 9.10.

#### 9.9.1.3. Occupant Load

(1) The *occupant load* of a *floor area* or part of a *floor area*, or of a *building* or part of a *building* not having a *floor area*, shall be based on

- (a) 2 persons per sleeping room or sleeping area in a *dwelling unit* or *suite*, and
- (b) for occupancies other than as described in Clause (a), the number of persons
  - (i) for which the area is designed, or
  - (ii) determined from Table 3.1.16.1.

#### 9.9.2. General

##### 9.9.2.1. Egress from Roof Area, Podiums, Terraces, Platforms and Contained Open Spaces

(1) An *access to exit* shall be provided from every roof intended for *occupancy* and from every podium, terrace, platform or contained open space.

(2) Where a roof is intended for an *occupant load* of more than 60 persons, at least 2 separate *means of egress* shall be provided from the roof to stairs designed in conformance with the requirements for *exit* stairs and located remote from each other.

(3) Where a podium, terrace, platform or contained open space is provided, egress requirements shall conform to the appropriate requirements for rooms or *suites* in Article 9.9.7.3.

##### 9.9.2.2. Types of Exits

(1) An *exit* from any *floor area* shall be one of the following used singly or in combination:

- (a) an exterior doorway,
- (b) an exterior passageway,
- (c) an exterior ramp,
- (d) an exterior stairway,
- (e) a fire escape (as described in Subsection 3.4.7.),
- (f) a *horizontal exit*,
- (g) an interior passageway,
- (h) an interior ramp, or
- (i) an interior stairway.

##### 9.9.2.3. Fire Escapes

(1) Fire escapes are permitted to be used as *exits* on existing *buildings* provided they are designed and installed in conformance with Part 3.

(2) Fire escapes shall not be installed on any new *building*.

**9.9.2.4. Elevators, Slide Escapes and Windows**

(1) Elevators, slide escapes or windows shall not be considered as part of a required *means of egress*.

(2) Except for *floor areas of mercantile occupancy*, casement windows not less than 1 060 mm high, 560 mm wide, with a sill height not more than 900 mm above the inside floor, are permitted to be considered part of a required *means of egress* to provide access to fire escapes, when fire escapes are permitted.

**9.9.2.5. Purpose of Exits**

(1) An *exit* shall be designed for no purpose other than for exiting except that an *exit* may also serve as an access to a *floor area*.

**9.9.2.6. Ancillary Rooms**

(1) Ancillary rooms such as storage rooms, washrooms, toilet rooms, laundry rooms and *service rooms* shall not open directly into an *exit*.

**9.9.2.7. Horizontal Exits**

(1) Where a *horizontal exit* is used, it shall conform to Part 3.

**9.9.2.8. Front Edge of Stair Treads**

(1) Except for curved stairs the front edge of stair treads in *exits* and *access to exits* shall be at right angles to the direction of *exit* travel.

**9.9.2.9. Exterior Exit Stairs that Serve a Hotel**

(1) Treads and landings of exterior *exit* stairs that serve a *hotel* shall be designed to be free from ice and snow accumulation.

**9.9.3. Dimensions of Means of Egress****9.9.3.1. Application**

(1) This Subsection applies to every *means of egress* except *exits* that serve not more than 1 *dwelling unit* and *access to exits* within *dwelling units*.

**9.9.3.2. Exit Width**

(1) Except for doors and corridors, the width of every *exit* facility shall be not less than 900 mm.

**9.9.3.3. Width of Corridors**

(1) The width of every *public corridor*, corridor used by the public, and *exit* corridor shall be not less than 1 100 mm.

**9.9.3.4. Headroom Clearance**

(1) Except for stairways, doorways and *storage garages*, the minimum headroom clearance in *exits* and *access to exits* shall be 2 100 mm.

(2) The clear height of every *storey* in a *storage garage* shall be not less than 2 000 mm.

**9.9.4. Fire Protection of Exits****9.9.4.1. Application**

(1) Except as provided in Article 9.9.4.4., this Subsection applies to the fire protection of all *exits* except *exits* serving not more than one *dwelling unit*.

**9.9.4.2. Fire Separation for Exits**

(1) Except as provided in Sentence (5) and Article 9.9.8.5., every *exit* other than an *exit* doorway, shall be separated from each adjacent *floor area* or from another *exit* by a *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly above the *floor area*.

(2) Where there is no floor assembly above, the *fire-resistance rating* required in Sentence (1) shall not be less than that required by Subsection 9.10.8. for the floor assembly below, but in no case shall the *fire-resistance rating* be less than 45 min.

(3) A *fire separation* common to 2 *exits* shall be smoke-tight and not be pierced by doorways, duct work, piping or any other opening that may affect the continuity of the separation.

(4) A *fire separation* that separates an *exit* from the remainder of the *building* shall have no openings except those for electrical wiring, *noncombustible* conduit and *noncombustible* piping that serve only the *exit* and for standpipes, sprinkler piping, *exit* doorways and wired glass and glass block permitted in Article 9.9.4.3.

(5) The requirements in Sentence (1) do not apply to an exterior *exit* passageway provided the passageway has at least 50 per cent of its exterior sides open to the outdoors and is served by an *exit* stair at each end of the passageway.

**9.9.4.3. Wired Glass or Glass Block**

(1) This Article applies to wired glass in doors, and wired glass or glass block in sidelights, where these are installed in *fire separations* between *exit* enclosures and *floor areas*.

(2) Except as provided in Sentence (3)

(a) the combined area of glazing in doors and sidelights shall not exceed 0.8 m<sup>2</sup>.

(3) Where an *exit* enclosure connects with a *floor area* through an enclosed vestibule or corridor separated from the *floor area* by *fire separations* having not less than a 45 min *fire-resistance rating*, the glazed areas described in Sentence (1) need not be limited as required in Sentence (2).

**9.9.4.4. Openings Near Unenclosed Exit Stairs and Ramps**

(1) Where an unenclosed exterior *exit* stair or ramp provides the only *means of egress* from a *suite*, and is exposed to fire from openings in the exterior walls of another *fire compartment*, the openings in the exterior walls of the *building* shall be protected with wired glass in fixed steel frames or glass block conforming to Articles 9.10.13.5. and 9.10.13.7. when the openings in the exterior walls of the *building* are within 3 m horizontally and less than 10 m below or less than 5 m above the *exit* stair or ramp.

**9.9.4.5. Openings in Exterior Walls of Exits**

(1) Either openings in the exterior walls of an *exit* or openings in adjacent exterior walls of the *building* the *exit* serves shall be protected with wired glass in steel frames or glass block installed in accordance with Articles 9.10.13.5. and 9.10.13.7., where



- (a) the *exit* enclosure has exterior walls that intersect the exterior walls of the *building* at an angle of less than 135° measured on the outside of the *building*, and
- (b) the openings in the exterior walls of the *building* are within 3 m horizontally and less than 2 000 mm above the openings in the exterior walls of the *exit*.

#### 9.9.4.6. Openings Near Exit Doors

(1) Where an exterior *exit* door in one *fire compartment* is within 3 m horizontally of openings in another *fire compartment*, and the exterior walls of these *fire compartments* intersect at an exterior angle of less than 135°, the openings shall be protected with wired glass in fixed steel frames or glass block conforming to Articles 9.10.13.5. and 9.10.13.7.

#### 9.9.4.7. Stairways in Group D or E Buildings

(1) Notwithstanding the requirements of Sentences 9.9.4.2.(1), 9.9.8.2.(1) and Article 9.10.9.5., where a *suite* of Group D or E occupancy is located partly on the *first storey* and partly on the second *storey* or partly on the second *storey* and partly on the third *storey*, stairways serving that *suite* need not be constructed as *exit* stairs provided

- (a) the *building* is not greater than 3 *storeys* in *building height*,
- (b) the *suite* is separated from other occupancies by at least a 45 min *fire separation*,
- (c) the area occupied by the *suite* is not greater than 100 m<sup>2</sup> per *storey*, other than the *exit level storey*,
- (d) the maximum travel distance from any point in the *suite* to an exterior *exit* is not greater than 25 m,
- (e) the floor assemblies have a *fire-resistance rating* of not less than 45 min or are of *noncombustible construction*,
- (f) the *basement* and *first storey* are separated by a *fire separation* having a *fire-resistance rating* of not less than 45 min, and
- (g) a *smoke alarm* is installed on each floor of the *suite*, including the *basement*, in accordance with Subsection 9.10.18.

(2) The requirements of Article 9.10.12.1., for separation of exterior openings, do not apply to an occupancy conforming with Sentence (1).

#### 9.9.5. Obstructions and Hazards in Means of Egress

##### 9.9.5.1. Application

(1) This Subsection applies to obstructions and hazards in every *means of egress* except those within a *dwelling unit* or serving not more than 1 *dwelling unit*.

##### 9.9.5.2. Occupancies in Public Corridors

(1) Where a *public corridor* or a corridor used by the public contains an occupancy, such occupancy shall not reduce the unobstructed width of the corridor to less than the required width of the corridor.

##### 9.9.5.3. Obstructions in Public Corridors

(1) Except as permitted in Sentence (2), obstructions located within 1 980 mm of the floor shall not project horizontally more than 100 mm into *exit* passageways, corridors used by the public or *public corridors* in a manner that would create a hazard for visually impaired persons travelling adjacent to walls.

(2) The horizontal projection of an obstruction in Sentence (1) is permitted to exceed 100 mm where the obstruction extends to less than 680 mm above the floor.

##### 9.9.5.4. Obstructions in Exits

(1) Except as permitted in Subsection 9.9.6. and Article 9.8.7.8., no fixture, turnstile or construction shall project within the required width of an *exit*.

##### 9.9.5.5. Obstructions in Means of Egress

(1) No obstructions such as posts or turnstiles shall be placed so as to restrict the width of a required *means of egress* from a *floor area* or part of a *floor area* to less than 750 mm unless an alternate unobstructed *means of egress* is provided adjacent to and plainly visible from the restricted egress.

(2) Except as provided in Sentence (3), no obstructions, such as counter gates, which do not meet the requirements for *exit* doors, shall be placed in a required *means of egress* from a *floor area* or part of a *floor area* unless an alternate unobstructed *means of egress* is provided adjacent to and plainly visible from the restricted egress.

(3) Obstructions, such as counter gates, which do not satisfy Sentence (2), are permitted to be placed in a required *means of egress* from a part of a *floor area* in *mercantile occupancies* and *business and personal services occupancies*, provided that the part of the *floor area* served by the unobstructed *means of egress* is not generally accessible to the public.

##### 9.9.5.6. Mirrors or Draperies

(1) No mirror shall be placed in or adjacent to any *exit* so as to confuse the direction of *exit*, and no mirror or draperies shall be placed on or over *exit* doors.

##### 9.9.5.7. Fuel-Fired Appliances

(1) Fuel-fired *appliances* shall not be installed in an *exit* or corridor serving as an *access to exit*.

##### 9.9.5.8. Service Rooms

(1) *Service rooms* containing equipment subject to possible explosion, such as *boilers* designed to operate at a pressure in excess of 100 kPa, and certain types of refrigerating and transformer equipment, shall not be located under required *exits*.

##### 9.9.5.9. Ancillary Rooms

(1) Ancillary rooms such as storage rooms, washrooms, toilet rooms, laundry rooms and *service rooms* shall not open directly into an *exit*.

#### 9.9.6. Doors in a Means of Egress

##### 9.9.6.1. Application

(1) This Subsection applies to all doors in a *means of egress* except doors within *dwelling units* and exterior doors serving not more than 1 *dwelling unit* unless otherwise stated herein.

##### 9.9.6.2. Obstruction by Doors

(1) *Exit* doors shall not decrease the required *exit* width by more than 100 mm in *exit* corridors, and not more than 50 mm for other *exit* facilities.

(2) Doors in their swing shall not reduce the width of the path of travel to less than

- (a) the required *exit* width in *exit* corridors and passageways, and
- (b) 750 mm on *exit* stairs and landings.

#### 9.9.6.3. Headroom Obstructions

(1) No door closer or other device shall be installed in an *exit* in such a manner as to reduce the headroom clearance to less than 1 980 mm.

#### 9.9.6.4. Door Sizes

(1) Every *exit* door or door that opens into or is located within a *public corridor* or other facility that provides *access to exit* from a *suite* shall

- (a) be not less than 2 030 mm high,
- (b) be not less than 810 mm wide where there is only one door leaf, and
- (c) shall have no single leaf less than 610 mm wide in any multiple leaf door.

#### 9.9.6.5. Direction of Door Swing

(1) Except as provided in Sentence 3.3.1.11.(1), every door that opens onto a corridor or other facility that provides *access to exit* from a room or *suite* having an *occupant load* of more than 60 persons, and every door that is located within a corridor that is required to be separated from the remainder of the *floor area* by a *fire separation* shall swing on a vertical axis in the direction of *exit* travel and shall not open onto a step.

(2) Except as permitted in Sentences (4) and (5) and in Sentences 3.4.6.11.(3) and 3.4.6.13.(1), every required *exit* door shall open in the direction of *exit* travel and shall swing on its vertical axis.

(3) Except as provided in Sentences (4) and (5), every required *exit* door shall open in the direction of *exit* travel.

(4) An *exit* door serving not more than one *dwelling unit* is permitted to swing inward.

(5) *Exit* doors serving a *storage garage* serving not more than one *dwelling unit*, or doors serving other accessory *buildings* where there is no danger to life safety, need not conform to Sentence (2) or (3).

#### 9.9.6.6. Nearness of Doors to Stairs

(1) Except as provided in Sentence (2), the distance between a stair riser and the leading edge of a door during its swing shall be not less than 300 mm.

(2) Where there is a danger of blockage from ice or snow, an *exit* door is permitted to open onto not more than 1 step provided the riser of such step does not exceed 150 mm.

#### 9.9.6.7. Revolving Doors

(1) Revolving doors used as *exits* shall conform to Article 3.4.6.14.

#### 9.9.6.8. Door Opening Mechanism

(1) Except as provided in Sentence 3.4.16.15.(4) for electromagnetic locking systems, *exit* doors and doors to *suites*, including exterior doors to *dwelling units*, shall be openable from the inside without requiring keys, special devices or specialized knowledge of the door opening mechanism.

#### 9.9.6.9. Automatic Locking Prohibited

(1) Except for *hotels* and *motels*, a door opening onto a *public corridor* which provides *access to exit* from *suites* shall be designed not to lock automatically when such doors are equipped with automatic self-closing devices.

#### 9.9.6.10. Effort Required to Open

(1) Every *exit* door shall be designed and installed so that when the latch is released the door will open in the direction of *exit* travel under a force of not more than 90 N applied at the knob or other latch releasing device.

#### 9.9.6.11. Arabic Numerals

(1) Where an *exit* stair serves a *hotel*, arabic numerals indicating the assigned floor number shall be

- (a) mounted permanently on each side of the *exit* door to the *exit* stair shaft,
- (b) not less than 60 mm high, raised approximately 0.7 mm above the door surface,
- (c) located 1 500 mm from the finished floor, and
- (d) contrasting in colour with the door surface on which they are applied.

#### 9.9.7. Access to Exits

##### 9.9.7.1. Means of Egress from Suites

(1) Except as permitted in Sentences 9.9.8.2.(2) and 9.9.9.3.(1), each *suite* in a *floor area* occupied by more than one *suite* shall have

- (a) an exterior *exit* doorway, or
- (b) a doorway to a *public corridor* or to an exterior passageway.

(2) Except as provided in Sentence 9.9.7.2.(1), from the point where a doorway described in Clause (1)(b) enters the *public corridor* or exterior passageway, it shall be possible to go in opposite directions to each of 2 separate *exits*.

##### 9.9.7.2. Dead End Corridors

(1) A dead-end *public corridor* is permitted in an *occupancy* shown in Table 9.9.7.2. where

- (a) a dead-end corridor
  - (i) does not exceed the distance of travel measured from the most remote point of the dead-end to a point where it is possible to go in opposite directions to each of two separate *exits*, and
  - (ii) is provided with doors equipped with self-closing devices, or
- (b) there is a second and separate egress doorway from each room or *suite* not leading into the dead-end corridor.

(2) Dead-end *public corridors* in *residential occupancies* and *business and personal services occupancies* shall contain only *suite* door openings arranged so that not more than 2 such doors have to be passed to reach the nearest *exit*. The area of wired glass in such doors shall not exceed 645 cm<sup>2</sup>.



Table 9.9.7.2.

**Dead End Public Corridors**

Forming Part of Sentence 9.9.7.2.(1)

Occupancy	Maximum Length of Dead-End Public Corridor, m	Maximum Occupant Load or Suites Served by Dead-End Public Corridor
Group C	6	4 suites
Group D	6	30
Group E	9	30
Group F	9	30
Column 1	2	3

**9.9.7.3. Number and Spacing of Egress Doors**

(1) Except for *dwelling units*, at least 2 egress doors shall be provided where

- (a) the area of a room or *suite* exceeds 200 m<sup>2</sup> in a Group D, E, F2 and F3 occupancy, or 150 m<sup>2</sup> in a Group C occupancy, or
- (b) the distance measured from any point within a room or *suite* to the nearest egress door exceeds 25 m.

(2) Doors in Sentence (1) shall be spaced so that in the event one door is made inaccessible by a fire within such a room or *suite*, the other door will provide safe egress.

**9.9.7.4. Independent Access to Exit**

(1) Required *access to exit* from *suites* shall not be through any other *dwelling unit*, *service room* or other *occupancy*.

**9.9.7.5. Travel Distance within Rooms and Suites**

(1) Except for *dwelling units*, the travel distance from any point within the room or *suite* to the nearest egress door shall not exceed the maximum travel distance in Article 9.9.8.2.

**9.9.8. Exits From Floor Areas****9.9.8.1. Measurement of Travel Distance**

(1) Except as provided in Sentences (2) and (3), for the purposes of this Subsection, travel distance means the distance from any point in the *floor area* to an *exit* measured along the path of *exit* travel.

(2) Where a room or *suite* is separated from the remainder of the *floor area* by a *fire separation* having a *fire-resistance rating* of at least 45 min, or in a *sprinklered building*, by a *fire separation* which is not required to have a *fire-resistance rating*, the travel distance is permitted to be measured from an egress door of the room or *suite* to the nearest *exit*.

(3) Where a *public corridor* is not less than 9 m wide and conforms to Clause 3.4.2.5.(1)(d), the travel distance is permitted to be determined in accordance with that Clause.

**9.9.8.2. Number of Required Exits**

(1) Except as provided in Sentences (2) and (3) and Subsection 9.9.9., not less than 2 *exits* shall be provided from every *floor area*, spaced so that the travel distance to the nearest *exit* is not more than

- (a) 40 m in the case of *business and personal services occupancies*,
- (b) 45 m for all *occupancies* where the *floor area* is *sprinklered*, and
- (c) 30 m for all other *occupancies*.

(2) Except as provided in Subsection 9.9.9., a single *exit* is permitted from each *storey* in *buildings* of 1 and 2 *storeys* in *building height* provided the *floor area* and travel distance requirements conform to those required in Article 9.9.7.3. and the total *occupant load* served by an *exit* facility does not exceed 60 persons.

(3) In *boarding, lodging or rooming houses*

- (a) where sleeping accommodation is provided for not more than 8 persons, a single *exit* is permitted from each *floor area*, or
- (b) where sleeping accommodation is not provided in the *basement*, a single *exit* is permitted from the *basement floor area*.

**9.9.8.3. Contribution of Each Exit**

(1) Where more than 1 *exit* is required from a *floor area*, each *exit* shall be considered as contributing not more than half the required *exit* width.

**9.9.8.4. Location of Exits**

(1) Where more than 1 *exit* is required from a *floor area*, not less than 2 *exits* shall be independent of each other and be placed remote from each other along the path of travel between them.

**9.9.8.5. Exiting through a Lobby**

(1) Not more than one *exit* from a *floor area* is permitted to lead through a lobby.

(2) The floor of the lobby referred to in Sentence (1) shall be not more than 4.5 m above *grade*, and the path of travel through the lobby to the outdoors shall not exceed 15 m.

(3) The lobby referred to in Sentence (1) shall conform in all respects with the requirements for *exits*, except that rooms other than *service rooms*, storage rooms and rooms of *residential or industrial occupancy* are permitted to open directly onto such lobby.

(4) Except as required in Sentence (5), an *exit* is permitted to lead through a lobby referred to in Sentence (1) provided the lobby is not located within an *interconnected floor space* other than as described in Sentence 3.2.8.2.(6).

(5) An *exit* which serves a *hotel* is permitted to lead through a lobby referred to in Sentence (1) provided the lobby is not located within an *interconnected floor space*.

(6) Where the lobby referred to in Sentence (1) and adjacent *occupancies* that are permitted to open into the lobby are *sprinklered*, the *fire separation* between such *occupancies* and the lobby need not have a *fire-resistance rating*.

**9.9.8.6. Exits for Mezzanines**

(1) A *mezzanine* shall be provided with *exits* on the same basis as required for a *floor area* where a *mezzanine* is considered to be a *storey* in Subsection 9.10.4. or is of a size required to have more than one *exit*.



**9.9.9. Egress from Dwelling Units****9.9.9.1. Travel Limit to Exits or Egress Doors**

(1) Except as provided in Sentences (2) and (3), every *dwelling unit* containing more than 1 *storey* shall have *exits* or egress doors located so that it shall not be necessary to travel up or down more than 1 *storey* to reach a level served by

- (a) an egress door to a *public corridor*, enclosed *exit* stair or exterior passageway, or
- (b) an *exit* doorway not more than 1 500 mm above adjacent ground level.

(2) Where a *dwelling unit* is not located above or below another *suite*, the travel limit from a floor level in the *dwelling unit* to an *exit* or egress door is permitted to exceed 1 *storey* where that floor level is served by an openable window or door

- (a) providing an unobstructed opening of not less than 1 000 mm in height and 550 mm in width, and
- (b) located so that the sill is not more than
  - (i) 1 000 mm above the floor, and
  - (ii) 7 m above adjacent ground level.

(3) The travel limit from a floor level in a *dwelling unit* to an *exit* or egress door is permitted to exceed 1 *storey* where that floor level has direct access to a balcony.

**9.9.9.2. Two Separate Exits**

(1) Except as provided in Sentence 9.9.7.2.(1), where an egress door from a *dwelling unit* opens onto a *public corridor* or exterior passageway it shall be possible from the location where the egress door opens onto the corridor or exterior passageway to go in opposite directions to 2 separate *exits* unless the *dwelling unit* has a second and separate *means of egress*.

**9.9.9.3. Shared Egress Facilities**

(1) A *dwelling unit* shall be provided with a second and separate *means of egress* where an egress door from the *dwelling unit* opens onto

- (a) an *exit* stairway serving more than 1 *suite*,
- (b) a *public corridor* serving more than one *suite* served by a single *exit* stairway,
- (c) an exterior passageway more than 1 500 mm above adjacent ground level, serving more than one *suite* and served by a single *exit* stairway, or
- (d) a balcony more than 1 500 mm above adjacent ground level, serving more than one *suite* and served by a single *exit* stairway.

**9.9.10. Signage****9.9.10.1. Application**

(1) This Subsection applies to all *exits* except those serving not more than 1 *dwelling unit*.

**9.9.10.2. Visibility of Exits**

(1) *Exits* shall be located so as to be clearly visible or their locations shall be clearly indicated.

**9.9.10.3. Required Exit Signs**

(1) Except as required in Sentence (2), every *exit* door other than a main entrance to a room or *building* shall have an *exit* sign over or adjacent to it when the *exit* serves

- (a) a three *storey* *building*,
- (b) a *building* with an *occupant load* greater than 150, or
- (c) a room or *floor area* that has a fire escape as part of a required *means of egress*.

(2) Except for *suite* doors opening directly to the exterior, every *exit* serving a *hotel* shall have an *exit* sign placed over or adjacent to it.

**9.9.10.4. Exit Direction Signs**

(1) *Exit* direction signs shall be placed in corridors and passageways where necessary to indicate the direction of *exit* travel.

**9.9.10.5. Visibility of Exit Signs**

(1) *Exit* signs shall be installed so as to be visible from the *exit* approach.

**9.9.10.6. Lettering**

(1) *Exit* signs shall have the word **EXIT** or the words **EXIT/SORTIE** in red letters on a contrasting background or a red background with contrasting letters when the sign is internally lighted, and white letters on a red background or red letters on a white background when the sign is externally lighted.

(2) Lettering referred to in Sentence (1) shall be made with not less than 19 mm wide strokes and be not less than 150 mm high when the sign is externally lighted, and at least 114 mm high when the sign is internally lighted.

(3) Where an *exit* sign having the word **EXIT** is installed in conformance with Sentence (1), an additional sign having the word **SORTIE** is permitted to be installed.

**9.9.10.7. Illumination**

(1) Illumination of *exit* signs required in Article 9.9.10.3. shall conform to Sentences 9.9.11.3.(2) and (3).

(2) Where illumination of *exit* signs required in Article 9.9.10.3. is provided by an electrical circuit, that circuit shall serve no equipment other than emergency equipment.

**9.9.10.8. Exits Continuing to a Basement**

(1) In *buildings* 3 *storeys* in *building height* any part of an *exit* ramp or stair that continues down to a *basement* past an exterior *exit* door shall be clearly marked to indicate that it does not lead to an *exit*, where the portion below ground level may be mistaken as the direction of *exit* travel.

**9.9.10.9. Floor Numbering**

- (1) Arabic numerals indicating the assigned floor number shall be
  - (a) mounted permanently on the stair side of the wall at the latch side of doors to *exit* stair shafts,

- (b) not less than 60 mm high, raised approximately 0.7 mm above the surface,
- (c) located 1 500 mm from the finished floor and not more than 300 mm from the door, and
- (d) contrasting in colour with the surface on which they are applied.

#### 9.9.11. Lighting

##### 9.9.11.1. Application

(1) This Subsection applies to the lighting of all *exits* except those serving not more than 1 *dwelling unit*.

##### 9.9.11.2. Required Lighting in Egress Facilities

(1) Every *exit*, *public corridor* or corridor providing *access to exit* for the public shall be equipped to provide illumination to an average level of not less than 50 lx at floor or tread level and at all points such as angles and intersections at changes of level where there are stairs or ramps.

##### 9.9.11.3. Emergency Lighting

(1) Emergency lighting shall be provided in

- (a) *exits*,
- (b) principal routes providing *access to exit* in an open *floor area*,
- (c) corridors used by the public,
- (d) underground *walkways*, and
- (e) *public corridors*.

(2) Emergency lighting required in Sentence (1) shall be provided from a source of energy separate from the electrical supply for the *building*.

(3) Lighting required in Sentence (1) shall be designed to be automatically actuated for a period of not less than 30 min when the electric lighting in the affected area is interrupted.

(4) Illumination from lighting required in Sentence (1) shall be provided to average levels of not less than 10 lx at floor or tread level.

(5) Where incandescent lighting is provided, lighting equal to 1 W/m<sup>2</sup> of *floor area* shall be considered to meet the requirement in Sentence (4).

(6) Where self-contained emergency lighting units are used, they shall conform to CSA C22.2 No. 141-M, "Unit Equipment for Emergency Lighting".

#### Section 9.10. Fire Protection

##### 9.10.1. General

##### 9.10.1.1. Support of Noncombustible Construction

(1) Where an assembly is required to be of *noncombustible construction* and to have a *fire-resistance rating*, it shall be supported by *noncombustible construction*.

##### 9.10.1.2. Sloped Roofs

(1) For the purposes of this Section, roofs with slopes of 60° or more to the horizontal and which are adjacent to a room or space intended for *occupancy* shall be considered as a wall.

##### 9.10.1.3. Items Under Part 3 Jurisdiction

(1) Tents, *air-supported structures*, transformer vaults, *walkways*, elevators and escalators shall conform to Part 3.

(2) Where rooms or spaces are intended for an *assembly occupancy*, such rooms or spaces shall conform to Part 3.

(3) *Basements* containing more than 1 *storey* or exceeding 600 m<sup>2</sup> in area shall conform to Part 3.

(4) Where rooms or spaces are intended for the storage, manufacture or use of hazardous or explosive material, such rooms or spaces shall conform to Part 3.

(5) Reserved

(6) Openings through floors that are not protected by shafts or *closures* shall be protected in conformance with Subsection 3.2.8.

(7) Chutes and shafts shall conform to Subsection 3.6.3. except where they are contained entirely within a *dwelling unit*.

(8) Where sprinkler, standpipe and hose systems are installed, they shall be installed in conformance with Part 3.

##### 9.10.1.4. Items Under Part 6 Jurisdiction

(1) In kitchens containing commercial cooking equipment used in processes producing grease-laden vapours, the equipment shall be designed and installed in conformance with Part 6.

(2) Where fuel-fired *appliances* are installed on a roof, such *appliances* shall be installed in conformance with Part 6.

#### 9.10.2. Occupancy Classification

##### 9.10.2.1. Occupancy Classification

(1) Except as provided in Article 9.10.2.2., every *building* or part thereof shall be classified according to its *major occupancy* as belonging to one of the groups or divisions described in Table 9.10.2.1.

Table 9.10.2.1.

#### Occupancy Classifications

Forming Part of Sentence 9.10.2.1.(1)

Group	Division	Description of <i>Major Occupancies</i>
C	—	<i>Residential occupancy</i>
C	—	<i>Business and personal services occupancies</i>
E	—	<i>Mercantile occupancies</i>
F	2	<i>Medium hazard industrial occupancies</i>
F	3	<i>Low hazard industrial occupancies</i> (Does not include <i>storage garages</i> serving individual <i>dwelling units</i> )
Column 1	2	3

**9.10.2.2. Custodial and Convalescent Homes**

(1) Children's custodial homes and convalescent homes for ambulatory occupants living as a single housekeeping unit in a *dwelling unit* with sleeping accommodation for not more than 10 persons is permitted to be classified as *residential occupancies* (Group C).

**9.10.2.3. Major Occupancies above Other Major Occupancies**

(1) Except as permitted in Article 9.10.2.4., in any *building* containing more than 1 *major occupancy* in which one *major occupancy* is located entirely above another, the requirements of Article 9.10.8.1. for each portion of the *building* containing a *major occupancy* shall be applied to that portion as if the entire *building* was of that *major occupancy*.

**9.10.2.4. Buildings Containing More Than One Major Occupancy**

(1) In a *building* containing more than 1 *major occupancy*, where the aggregate area of all *major occupancies* in a particular group or division does not exceed 10% of the *floor area* on the *storey* on which they are located, they need not be considered as *major occupancies* for the purposes of Articles 9.10.8.1. and 9.10.2.3. provided they are not classified as Group F, Division 2 *occupancies*.

**9.10.2.4. Restaurants**

(1) A restaurant is permitted to be classified as a Group E *major occupancy* provided such restaurant is designed to accommodate not more than 30 persons consuming food or drink.

**9.10.3. Ratings****9.10.3.1. Fire-Resistance and Fire-Protection Ratings**

(1) Where a *fire-resistance rating* or a *fire-protection rating* is required in this Section for an element of a *building*, such rating shall be determined in conformance with the test methods described in Part 3, or the Supplementary Guidelines.

**9.10.3.2. Flame-Spread Rating**

(1) Where a *flame-spread rating* is required in this Section for an element of a *building*, such rating shall be determined in accordance with the test methods described in Part 3, or in accordance with the Supplementary Guidelines.

(2) Unless the *flame-spread rating* is referred to herein as a "surface *flame-spread rating*", it shall apply to any surface of the element being considered that would be exposed by cutting through it as well as to the exposed surface of the element.

**9.10.3.3. Fire Exposure**

(1) Floor, roof and ceiling assemblies shall be rated for exposure to fire on the underside.

(2) Exterior walls shall be rated for exposure to fire from inside the *building*, except that such walls need not comply with the temperature rise limitations required by the standard tests referred to in Article 9.10.3.1. if such walls have a *limiting distance* of not less than 1 200 mm, and due allowance is made for the effects of heat radiation in accordance with the requirements in Part 3.

(3) *Firewalls* and Interior vertical *fire separations* required to have *fire-resistance ratings* shall be rated for exposure to fire on each side.

**9.10.3.4. Suspended Membrane Ceiling**

(1) Where a ceiling construction has a suspended membrane ceiling with lay-in panels or tiles which contribute to the required *fire-resistance rating*, hold down clips or other means shall be provided to prevent the lifting of such panels or tiles in the event of a fire.

**9.10.4. Building Size Determination****9.10.4.1. Mezzanines not Considered as Storeys**

(1) *Mezzanines* shall not be considered as *storeys* for the purpose of determining *building height* where the aggregate area of *mezzanine* floors does not exceed 10% of

(a) the *suite* in which it is located, where there is more than one *suite* in the *storey*, or

(b) the *storey* in which it is located, in all other cases.

(2) *Mezzanines* shall not be considered as *storeys* for the purpose of determining *building height* where they occupy an aggregate area not exceeding 40% of the area of the room or the *storey* in which they are located provided the space above the *mezzanine* floor has no visual obstructions more than 1 070 mm above such floors.

**9.10.4.2. More Than One Level of Mezzanine**

(1) Where more than 1 level of *mezzanine* is provided in a *storey*, each level additional to the first shall be considered as a *storey*.

**9.10.4.3. Basement Storage Garage**

(1) Where a *basement* is used primarily as a *storage garage*, the *basement* is permitted to be considered as a separate *building* for the purposes of this Section provided the floor above the *basement* and the exterior walls of the *basement* above the adjoining ground level are constructed as *fire separations* of masonry or concrete having a *fire-resistance rating* of not less than 2 h.

**9.10.4.4. Roof-Top Enclosures**

(1) Roof-top enclosures provided for elevator machinery, stairways and *service rooms*, used for no purpose other than for service to the *building*, shall not be considered as a *storey* in calculating the *building height*.

**9.10.5. Permitted Openings in Wall and Ceiling Assemblies****9.10.5.1. Permitted Openings in Wall and Ceiling Membranes**

(1) Except as permitted in Sentences (2) and (4), a membrane forming part of an assembly required to have a *fire-resistance rating* shall not be pierced by openings into the assembly unless the assembly has been tested and rated for such openings.

(2) A wall or ceiling membrane forming part of an assembly required to have a *fire-resistance rating* is permitted to be pierced by openings for electrical and similar service outlet boxes provided such outlet boxes are tightly fitted.

(3) Where boxes referred to in Sentence (2) are located on both sides of walls required to provide a *fire-resistance rating*, they shall be offset where necessary to maintain the integrity of the *fire separation*.

(4) A membrane ceiling forming part of an assembly assigned a *fire-resistance rating* on the basis of Table A-9.10.3.1.B. in the Supplementary Guidelines, is permitted to be pierced by openings leading to ducts within the ceiling space provided the ducts, the amount of openings and their protection conform to the requirements in the Supplementary Guidelines.



## 9.10.6. Construction Types

### 9.10.6.1. Combustible Elements in Noncombustible Construction

(1) Where a *building* or part of a *building* is required to be of *noncombustible construction*, *combustible* elements shall be limited in conformance with the requirements in Subsection 3.1.5.

### 9.10.6.2. Heavy Timber Construction

(1) *Heavy timber construction* shall be considered to have 45 min *fire-resistance rating* when it is constructed in accordance with the requirements for *heavy timber construction* in Article 3.1.4.6.

## 9.10.7. Steel Members

### 9.10.7.1. Protection of Structural Steel Members

(1) Except as permitted in Article 3.2.2.3., structural steel members used in construction required to have a *fire-resistance rating* shall be protected to provide the required *fire-resistance rating*.

## 9.10.8. Fire Resistance in Relation to Occupancy and Height

### 9.10.8.1. Fire Resistance Ratings for Floors and Roofs

(1) Except as otherwise provided in this Subsection, the *fire-resistance ratings* of floors and roofs shall conform to Table 9.10.8.1.

Table 9.10.8.1.

#### Fire Resistance Ratings for Structural Members and Assemblies

Forming Part of Sentence 9.10.8.1.(1)

Major Occupancy	Maximum Building Height, Storeys	Minimum Fire Resistance Rating by Building Element, min		
		Floors Except Floors over Crawl Spaces	Mezzanine Floors	Roofs
Residential (Group C)	3	45	45	—
All other occupancies	2	45	—	—
	3	45	45	45
Column 1	2	3	4	5

### 9.10.8.2. Fire-Resistance Ratings in Sprinklered Buildings

(1) The requirements in Table 9.10.8.1. for roof assemblies to have a *fire-resistance rating* are permitted to be waived in *sprinklered buildings* where

- (a) the sprinkler system is electrically supervised in conformance with Sentence 3.2.4.9.(2), and
- (b) the operation of the sprinkler system will cause a signal to be transmitted to the fire department in conformance with Sentence 3.2.4.7.(4).

### 9.10.8.3. Fire-Resistance Ratings for Walls, Columns and Arches

(1) Except as otherwise provided in this Subsection, all *loadbearing* walls, columns and arches in the *storey* immediately below a floor or roof assembly shall have a *fire-resistance rating* of not less than that required for the supported floor or roof assembly.

## 9.10.8.4. Service Rooms

(1) Construction supporting a *service room* need not conform to Article 9.10.8.3.

## 9.10.8.5. Mezzanines

(1) Mezzanines required to be counted as *storeys* in Articles 9.10.4.1. and 9.10.4.2. shall be constructed in conformance with the requirements for "Floors Except Floors over Crawl Spaces" in Table 9.10.8.1.

## 9.10.8.6. Roofs Supporting an Occupancy

(1) Where a portion of a roof supports an *occupancy*, that portion shall be constructed as a *fire separation* having a *fire-resistance rating* conforming to the rating for "Floors Except Floors over Crawl Spaces" in Table 9.10.8.1.

## 9.10.8.7. Floors of Exterior Passageways

(1) Except as provided in Sentences (2) and (3), the floor assembly of every exterior passageway used as part of a *means of egress* shall have a *fire-resistance rating* of not less than 45 min or be of *noncombustible construction*.

(2) No *fire-resistance rating* is required for floors of exterior passageways serving *buildings* of Group D, E or F *major occupancy* that are not more than 2 *storeys* in *building height*.

(3) No *fire-resistance rating* is required for floors of exterior passageways serving a single *dwelling unit* where no *suite* is located above or below the *dwelling unit*.

## 9.10.8.8. Crawl Spaces

(1) Where a crawl space exceeds 1 800 mm in height or is used for any *occupancy* or as a *plenum* in *combustible construction* or for the passage of *flue pipes*, it shall be considered as a *basement* in applying the requirements in Article 9.10.8.1.

## 9.10.8.9. Application to Houses

(1) Table 9.10.8.1. does not apply to a *dwelling unit* which has no other *dwelling unit* above or below it or to a *dwelling unit* which is not above or below another *major occupancy*.

## 9.10.8.10. Part 3 as an Alternative

(1) The *fire-resistance ratings* of floors, roofs, *loadbearing* walls, columns and arches need not conform to this Subsection if such assemblies conform in all respects to the appropriate requirements in Section 3.2.

## 9.10.9. Fire Separations Between Rooms and Spaces Within Buildings

### 9.10.9.1. Application

(1) This Subsection applies to *fire separations* required between rooms and spaces in *buildings* except between rooms and spaces within a *dwelling unit*.

### 9.10.9.2. Continuous Barrier

(1) Except as permitted in Article 9.10.9.3., a wall or floor assembly required to be a *fire separation* shall be constructed as a continuous barrier against the spread of fire.

### 9.10.9.3. Openings to be Protected With Closures

(1) Except as permitted in Articles 9.10.9.5., 9.10.9.6. and 9.10.9.7., openings in required *fire separations* shall be protected with *closures* conforming to Subsection 9.10.13.

**9.10.9.4. Floor Assemblies**

(1) Except as permitted in Sentences (2) to (4), all floor assemblies shall be constructed as *fire separations*.

(2) Floor assemblies contained within *dwelling units* need not be constructed as *fire separations*.

(3) Floor assemblies for which no *fire-resistance rating* is required by Subsection 9.10.8. and floors of *mezzanines* not required to be counted as *storeys* in Articles 9.10.4.1. and 9.10.4.2. need not be constructed as *fire separations*.

(4) Where a crawl space is not required by Article 9.10.8.8. to be constructed as a *basement*, the floor above it need not be constructed as a *fire separation*.

**9.10.9.5. Interconnected Floor Spaces**

(1) Except as permitted in Article 9.9.4.7., *interconnected floor spaces* shall conform to the requirements of Subsection 3.2.8.

**9.10.9.6. Service Equipment Penetrating a Fire Separation**

(1) Piping, tubing, ducts, *chimneys*, wiring, conduit, electrical outlet boxes and other similar service equipment that penetrate a required *fire separation* shall be tightly fitted or fire stopped to maintain the integrity of the separation.

(2) Except as provided in Sentences (3) to (9) and Article 9.10.9.7., pipes, ducts, electrical outlet boxes, totally enclosed raceways or other similar service equipment that partly or wholly penetrate an assembly required to have a *fire-resistance rating* shall be *noncombustible* unless the assembly has been tested incorporating such equipment.

(3) Electrical wires or other similar wiring enclosed in *noncombustible* totally enclosed raceways are permitted to partly or wholly penetrate an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Sentence (2).

(4) Electrical wires or cables, single or grouped, with *combustible* insulation or jacketing that is not totally enclosed in raceways of *noncombustible* material, are permitted to partly or wholly penetrate an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Sentence (2) provided the overall diameter of the wiring is not more than 25 mm.

(5) *Combustible* totally enclosed raceways which are embedded in a concrete floor slab are permitted in an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Sentence (2), where the concrete provides at least 50 mm of cover between the raceway and the bottom of slab.

(6) *Combustible* outlet boxes are permitted in an assembly required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Sentence (2) provided the opening through the membrane into the box does not exceed 160 cm<sup>2</sup>.

(7) *Combustible* water distribution piping that has an outside diameter not more than 30 mm is permitted to partly or wholly penetrate a vertical *fire separation* that is required to have a *fire-resistance rating* without being incorporated in the assembly at the time of testing as required in Sentence (2) provided the piping is sealed in conformance with Article 3.1.9.1.

(8) *Combustible* sprinkler piping is permitted to penetrate a *fire separation* provided the *fire compartments* on each side of the *fire separation* are *sprinklered*.

(9) *Combustible* piping for central vacuum systems is permitted to penetrate a *fire separation* provided the installation conforms to the requirements that apply to *combustible* piping in Sentences 9.10.9.7.(2) to (6).

**9.10.9.7. Combustible Piping**

(1) Except as permitted in Sentences (2) to (6), *combustible* piping shall not be used where any part of a piping system partly or wholly penetrates a *fire separation* required to have a *fire-resistance rating* or penetrates a membrane that contributes to the required *fire-resistance rating* of an assembly.

(2) *Combustible* piping not located in a vertical shaft is permitted to penetrate a *fire separation* required to have a *fire-resistance rating* or a membrane that forms part of an assembly required to have a *fire-resistance rating* provided the piping is sealed at the penetration by a firestop system that has an F rating not less than the *fire-resistance rating* required for the *fire separation*.

(3) The rating referred to in Sentence (2) shall be based on CAN4-S115, "Standard Method of Fire Tests for Firestop Systems" with a pressure differential of 50 Pa between the exposed and unexposed sides, with the higher pressure on the exposed side.

(4) *Combustible* drain piping is permitted to penetrate a horizontal *fire separation* or a membrane that contributes to the required *fire-resistance rating* of a horizontal *fire separation* provided it leads directly from a *noncombustible* water closet through a concrete floor slab.

(5) *Combustible* piping is permitted

(a) on one side of a vertical *fire separation* provided it is not located in a vertical shaft, and

(b) to penetrate a vertical or horizontal *fire separation* when the *fire compartment* on each side of the *fire separation* is *sprinklered*.

(6) In *buildings* containing 2 *dwelling units* only, *combustible* piping is permitted on one side of a horizontal *fire separation*.

**9.10.9.8. Collapse of Combustible Construction**

(1) *Combustible construction* that abuts on or is supported by a *noncombustible fire separation* shall be constructed so that its collapse under fire conditions will not cause collapse of the *fire separation*.

**9.10.9.9. Reduction in Thickness of Fire Separation by Beams and Joists**

(1) Beams and joists framed into a masonry or concrete *fire separation* shall not reduce the thickness of the *fire separation* to less than

(i) 100 mm of solid masonry or solid concrete, or

(ii) the equivalent thickness of the masonry or concrete determined in accordance with the Supplementary Guidelines.

**9.10.9.10. Concealed Spaces above Fire Separations**

(1) Except as provided in Sentence (2), a *horizontal service space* or other concealed space located above a required vertical *fire separation* shall be divided at the *fire separation* by an equivalent *fire separation* within the space.

(2) Where a *horizontal service space* or other concealed space is located above a required vertical *fire separation* other than a vertical shaft, such space need not be divided as required in Sentence (1) provided the construction between such space and the space below is



constructed as a *fire separation* having a *fire-resistance rating* not less than that required for the vertical *fire separation*, except that where the vertical *fire separation* is not required to have a *fire-resistance rating* greater than 45 min, the *fire-resistance rating* of the ceiling is permitted to be reduced to 30 min.

#### 9.10.9.11. Separation of Residential Occupancies

(1) Except as provided in Sentences (2) and (4), *residential occupancies* shall be separated from all other *major occupancies* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

(2) Except as provided in Sentence (3), a *major occupancy* classified as a *residential occupancy*, including *live/work units*, shall be separated from other *major occupancies* classified as *mercantile* or *medium hazard industrial occupancies* by a *fire separation* having a *fire-resistance rating* of not less than 2 h.

(3) Where not more than 2 *dwelling units* or *live/work units* are located in a *building* containing a *mercantile occupancy*, such *mercantile occupancy* shall be separated from the *dwelling units* or *live/work units* by a *fire separation* having not less than 1 h *fire-resistance rating*.

(4) The requirement for *fire separations* between *major occupancies* in Sentence (1) is waived for the *occupancies* allowed within *live/work units*.

#### 9.10.9.12. Residential Suites, Live/Work Units and Industrial Buildings

(1) Except as provided in Sentence (2), not more than 1 *suite* of *residential occupancy* shall be contained within a *building* classified as a Group F, Division 2 *major occupancy*.

(2) Except where a Group F Division 2 *major occupancy* is directly related to *live/work units*, not more than one *suite* of *residential occupancy* shall be contained within a *building* classified as Group F, Division 2 *major occupancy*.

#### 9.10.9.13. Separation of Suites

(1) Except as required in Article 9.10.9.14., and as permitted by Sentence (2), each *suite* in other than *business and personal services occupancies* shall be separated from adjoining *suites* by a *fire separation* having a *fire-resistance rating* of not less than 45 min.

(2) In *sprinklered buildings*, *suites* of *business and personal services occupancy* and *mercantile occupancy* that are served by *public corridors* conforming with Sentence 3.3.1.4.(4) are not required to be separated from each other by *fire separations*.

#### 9.10.9.14. Separation of Residential Suites

(1) Except as provided in Sentences (2) and (3) and Article 9.10.20.2., *suites* in *residential occupancies* shall be separated from adjacent rooms and *suites* by a *fire separation* having a *fire-resistance rating* of not less than 45 min.

(2) Sleeping rooms in *boarding, lodging or rooming houses* where sleeping accommodation is provided for not more than 8 boarders or lodgers shall be separated from the remainder of the *floor area* by a *fire separation* having a *fire-resistance rating* of not less than 30 min where the sleeping rooms form part of the proprietor's residence and do not contain cooking facilities.

(3) *Dwelling units* that contain 2 or more *storeys* including *basements* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h.

#### 9.10.9.15. Separation of Public Corridors

(1) Except as provided in Sentences (2) and (3), *public corridors* shall be separated from the remainder of the *building* by a *fire separation* having not less than a 45 min *fire-resistance rating*.

(2) In other than *residential occupancies*, no *fire-resistance rating* is required for *fire separations* between a *public corridor* and the remainder of the *building* if

- (a) the *floor area* is *sprinklered*,
- (b) the *sprinkler system* is electrically supervised in conformance with Sentence 3.2.4.9.(2), and
- (c) the operation of the *sprinkler system* will cause a signal to be transmitted to the fire department in conformance with Sentence 3.2.4.7.(4).

(3) In other than *residential occupancies*, no *fire separation* is required between a *public corridor* and the remainder of the *building* if

- (a) the *floor area* is *sprinklered*,
- (b) the *sprinkler system* is electrically supervised in conformance with 3.2.4.9.(2),
- (c) the operation of the *sprinkler system* will cause a signal to be transmitted to the fire department in conformance with Sentence 3.2.4.7.(4), and
- (d) the *corridor* exceeds 5 m in width.

#### 9.10.9.16. Separation of Storage Garages

(1) Except as provided in Sentences (2) and (3), a *storage garage* shall be separated from other *occupancies* by a *fire separation* having not less than a 1.5 h *fire-resistance rating*.

(2) Except as permitted in Sentence (3), *storage garages* containing 5 motor vehicles or fewer shall be separated from other *occupancies* by a *fire separation* of not less than 1 h.

(3) Where a *storage garage* serves only the *dwelling unit* to which it is attached or built in, it shall be considered as part of that *dwelling unit* and the *fire separation* required in Sentence (2) need not be provided between the *garage* and the *dwelling unit* where

- (a) the construction between the *garage* and the *dwelling unit* provides an effective barrier to gas and exhaust fumes, and
- (b) every door between the *garage* and *dwelling unit* conforms to Article 9.10.13.15.

#### 9.10.9.17. Separation of Repair Garages

(1) Except as provided in Sentence (2), a *repair garage* shall be separated from other *occupancies* by a *fire separation* having a *fire-resistance rating* of not less than 2 h.

(2) Ancillary spaces directly serving a *repair garage*, including waiting rooms, reception rooms, tool and parts storage areas and supervisory office space need not be separated from the *repair garage* but shall be separated from other *occupancies* as required in Sentence (1).

#### 9.10.9.18. Exhaust Ducts Serving More Than One Fire Compartment

(1) Where a *vertical service space* contains an *exhaust duct* that serves more than one *fire compartment*, the duct shall have a fan located



at or near the exhaust outlet to ensure that the duct is under negative pressure.

(2) Individual *fire compartments* referred to in Sentence (1) shall not have fans that exhaust directly into the duct in the *vertical service space*.

#### 9.10.9.19. Central Vacuum Systems

(1) A central vacuum system shall serve not more than one *suite*.

#### 9.10.10. Service Rooms

##### 9.10.10.1. Application

(1) This Subsection applies to *service rooms* in all *buildings* except rooms located within a *dwelling unit*.

##### 9.10.10.2. Service Room Floors

(1) The *fire-resistance rating* requirements in this Subsection do not apply to the floor assembly immediately below a *service room*.

##### 9.10.10.3. Separation of Service Rooms

(1) Except as required in Sentence (2) and Articles 9.10.10.5. and 9.10.10.6., *service rooms* shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 1 h when the *floor area* containing the *service room* is not *sprinklered*.

(2) Where a room contains a limited quantity of service equipment and the service equipment does not constitute a fire hazard, the requirements in Sentence (1) shall not apply.

##### 9.10.10.4. Appliances and Equipment to be Located in a Service Room

(1) Except as provided in Sentence (2) and Article 9.10.10.5., fuel-fired *appliances* other than fireplaces shall be located in a *service room* separated from the remainder of the *building* by a *fire separation* having not less than a 1 h *fire-resistance rating*.

(2) Except as required in the *appliance* installation standards referenced in Sentences 6.2.1.5.(1), 9.33.5.2.(1) and 9.33.5.3.(1), fuel-fired *space-heating appliances*, *space-cooling appliances* and *service water heaters* need not be separated from the remainder of the *building* as required in Sentence (1) where the equipment serves

(a) not more than one room or *suite*, or

(b) a *building* with a *building area* of not more than 400 m<sup>2</sup> and a *building height* of not more than 2 *storeys*.

##### 9.10.10.5. Incinerators

(1) *Service rooms* containing incinerators shall be separated from the remainder of the *building* by a *fire separation* having a *fire-resistance rating* of not less than 2 h.

(2) The design, construction, installation and alteration of each indoor incinerator shall conform to NFPA 82, "Incinerators, Waste and Linen Handling Systems and Equipment".

(3) Every incinerator shall be connected to a *chimney flue* conforming to the requirements in Section 9.21 and serving no other *appliance*.

(4) An incinerator shall not be located in a room with other fuel-fired *appliances*.

#### 9.10.10.6. Storage Rooms

(1) Rooms for the temporary storage of *combustible* refuse in all *occupancies* or for public storage in *residential occupancies* shall be separated from the remainder of the *building* by a *fire separation* having not less than a 1 h *fire-resistance rating*, except that a 45 min *fire separation* is permitted where the *fire-resistance rating* of the floor assembly is not required to exceed 45 min, or where such rooms are *sprinklered*.

#### 9.10.11. Firewalls

##### 9.10.11.1. Required Firewalls

(1) Except as provided in Articles 9.10.11.2. and 9.10.11.4., a *party wall* on a property line shall be constructed as a *firewall*.

##### 9.10.11.2. Firewalls Not Required

(1) In a *building* of *residential occupancy* in which there is no *dwelling unit* above another *dwelling unit*, a *party wall* on a property line between *dwelling units* need not be constructed as a *firewall* provided it is constructed as a *fire separation* having not less than a 1 h *fire-resistance rating*.

(2) The wall described in Sentence (1) shall provide continuous protection from the top of the footings to the underside of the roof deck.

(3) Any space between the top of the wall described in Sentence (1) and the roof deck shall be tightly filled with mineral wool or *noncombustible* material.

##### 9.10.11.3. Construction of Firewalls

(1) Where *firewalls* are used, the requirements in Part 3 shall apply.

##### 9.10.11.4. Firewalls in Detached Garages

(1) Where a garage is detached from the *dwelling unit* but attached to another garage on the adjacent property, the *party wall* so formed shall be constructed as a *fire separation* having a *fire-resistance rating* of not less than 45 min.

#### 9.10.12. Prevention of Fire Spread at Exterior Walls and between Storeys

##### 9.10.12.1. Separation of Exterior Openings

(1) In *buildings* of *mercantile* or *medium hazard industrial occupancy*, exterior openings in one *storey* shall be separated from openings in an adjacent *storey* by

(a) a wall not less than 1 000 mm in vertical dimension, or

(b) a canopy or balcony not less than 1 000 mm in width.

(2) The wall, canopy or balcony described in Sentence (1) shall have a *fire-resistance rating* not less than that required for the floor assembly separating the *storeys*, except that the rating need not exceed 1 h.

##### 9.10.12.2. Termination of Floors or Mezzanines

(1) Except as provided in Sentence (2) and in Articles 9.10.1.3. and 9.10.9.5., the portions of a *floor area* or *mezzanine* that do not terminate at an exterior wall, a *firewall* or a vertical shaft, shall terminate at a vertical *fire separation* having a *fire-resistance rating* not less than that required for the floor assembly that terminates at the separation.

(2) A *mezzanine* need not terminate at a vertical *fire separation* where the *mezzanine* is not required to be considered as a *storey* in Articles 9.10.4.1. and 9.10.4.2.

#### 9.10.12.3. Location of Skylights

(1) Where a wall in a *building* is exposed to a fire hazard from an adjoining roof of a separate unsprinklered *fire compartment* in the same *building*, the roof shall contain no skylights within a horizontal distance of 5 m of the windows in the exposed wall.

#### 9.10.12.4. Exterior Walls Meeting at an Angle

(1) Except as provided in Article 9.9.4.5., where exterior walls of a *building* meet at an external angle of less than 135°, the horizontal distance from an opening in one wall to an opening in the other wall shall be not less than 1 200 mm where the openings are in different *fire compartments*.

(2) The exterior wall of each *fire compartment* referred to in Sentence (1) within the 1 200 mm distance, shall have a *fire-resistance rating* not less than that required for the interior vertical *fire separation* between the compartment and the remainder of the *building*.

#### 9.10.12.5. Protection of Soffits

(1) Except as provided in Sentences (2) and (3), where a common *attic or roof space* spans more than 2 *suites* of *residential occupancy*, and projects beyond the exterior wall of the *building*, the portion of any soffit or other surface enclosing the projection which is less than 2 500 mm vertically above a window or door and less than 1 200 mm from either side of the window or door, shall have no *unprotected openings* and shall be protected by

- (a) *noncombustible* material having a minimum thickness of 0.38 mm and a melting point not below 650°C,
- (b) not less than 12.7 mm thick gypsum soffit board or gypsum wallboard installed according to CSA A82.31-M, "Gypsum Board Application",
- (c) not less than 11 mm thick plywood,
- (d) not less than 12.5 mm thick OSB or waferboard, or
- (e) not less than 11 mm thick lumber.

(2) Where the soffit or other surface described in Sentence (1) is completely separated from the remainder of the *attic or roof space* by firestopping, the requirements in Sentence (1) do not apply.

(3) Where all *suites* spanned by a common *attic or roof space* are *sprinklered*, the requirements in Sentence (1) do not apply provided that all rooms, including closets and bathrooms, having openings in the wall beneath the soffit are *sprinklered*, notwithstanding any exceptions in the sprinkler standards referenced in Article 3.2.5.13.

#### 9.10.13. Doors, Dampers and Other Closures in Fire Separations

##### 9.10.13.1. Closures

(1) Except as provided in Article 9.10.13.2., openings in required *fire separations* shall be protected with a *closure* conforming to Table 9.10.13.1. and shall be installed in conformance with Chapters 2 to 14 of NFPA 80, "Fire Doors and Windows" unless otherwise specified herein.

Table 9.10.13.1.

#### Fire-Protection Ratings for Closures

Forming Part of Sentence 9.10.13.1.(1)

Required Fire-Resistance Rating of Fire Separation	Required Fire-Protection Rating of Closure
30 or 45 min	20 min <sup>(1)</sup>
1 h	45 min <sup>(1)</sup>
1.5 h	1 h
2 h	1.5 h
3 h	2 h
4 h	3 h
Column 1	2

Note to Table 9.10.13.1.:

(1) See Article 9.10.13.2.

##### 9.10.13.2. Solid Core Wood Door as a Closure

(1) A 45 mm thick solid core wood door is permitted to be used where a minimum *fire-protection rating* of 20 min is permitted or between a *public corridor* and a *suite* provided the door conforms to CAN4-S113, "Standard Specification for Wood Core Doors Meeting the Performance Required by CAN4-S104 for Twenty Minute Fire-Rated Closure Assemblies".

(2) Doors described in Sentence (1) shall have not more than a 6 mm clearance beneath and not more than 3 mm at the sides and top.

(3) Where a 45 mm thick solid core wood door is permitted in a required *fire separation*, the requirement for a *noncombustible* sill in NFPA 80, "Fire Doors and Windows" shall not apply.

##### 9.10.13.3. Unrated Wood Door Frames

(1) Doors required to provide a 20 min *fire-protection rating* or permitted to be 45 mm solid core wood shall be mounted in a wood frame of at least 38 mm thickness where the frame has not been tested and rated.

##### 9.10.13.4. Doors as a Means of Egress

(1) Doors forming part of an *exit* or a *public means of egress* shall conform to Subsection 9.9.6. in addition to this Subsection.

##### 9.10.13.5. Wired Glass as a Closure

(1) Wired glass conforming to Article 9.7.3.1. which has not been tested in accordance with Article 9.10.3.1. is permitted as a *closure* in a vertical *fire separation* required to have a *fire-resistance rating* of not more than 1 h provided such glass is not less than 6 mm thick and is mounted in conformance with Sentence (2).

(2) Wired glass described in Sentence (1) shall be mounted in fixed steel frames having a minimum metal thickness of not less than 1.35 mm and a glazing stop of not less than 20 mm on each side of the glass.

(3) Individual panes of glass described in Sentence (1) shall not exceed 0.8 m<sup>2</sup> in area or 1 400 mm in height or width, and the area of glass not structurally supported by mullions shall not exceed 7.5 m<sup>2</sup>.

##### 9.10.13.6. Steel Door Frames

(1) Steel door frames forming part of a *closure* in a *fire separation*, including anchorage requirements, shall conform to CAN4-S105, "Standard Specification for Fire Door Frames Meeting the Performance Required by CAN4-S104."

**9.10.13.7. Glass Block as a Closure**

(1) Glass block that has not been tested in accordance with Article 9.10.3.1. is permitted as a *closure* in a *fire separation* required to have a *fire-resistance rating* of not more than 1 h.

**9.10.13.8. Maximum Size of Opening**

(1) The size of an opening in an interior *fire separation*, even where protected with a *closure*, shall not exceed 11 m<sup>2</sup>, with no dimension greater than 3.7 m, if a *fire compartment* on either side of the *fire separation* is not *sprinklered*.

(2) The size of an opening in an interior *fire separation*, even where protected with a *closure*, shall not exceed 22 m<sup>2</sup>, with no dimension greater than 6 m, when the *fire compartments* on both sides of the *fire separation* are *sprinklered*.

**9.10.13.9. Door Latch**

(1) Every swing type door in a *fire separation* shall be equipped with a latch.

**9.10.13.10. Self-Closing Device**

(1) Except as described in Sentence (2), every door in a *fire separation* shall have a self-closing device.

(2) Self-closing devices are not required between *public corridors* and *suites* in *business and personal services occupancies*, except in

- (a) dead-end corridors, or
- (b) a corridor which serves a *hotel*.

**9.10.13.11. Hold-Open Devices**

(1) Where hold-open devices are used on doors in required *fire separations*, they shall be installed in accordance with Article 3.1.8.12.

**9.10.13.12. Service Room Doors**

(1) Swing-type doors shall open into *service rooms* containing fuel-fired equipment where such doors lead to *public corridors* or rooms used for assembly but shall swing outward from such rooms in all other cases.

**9.10.13.13. Fire Dampers**

(1) Except as permitted in Sentences (2) to (5) and 9.10.5.1.(4) ducts that connect 2 *fire compartments* or penetrate an assembly required to be a *fire separation* with a *fire-resistance rating* shall be equipped with a *fire damper* in conformance with Article 3.1.8.9.

(2) A *fire damper* is not required where a *noncombustible* branch duct pierces a required *fire separation* provided the duct

- (a) has melting point not below 760°C,
- (b) has a cross-sectional area less than 0.013 m<sup>2</sup>, and

(c) supplies only air-conditioning units or combined *air-conditioning* and heating units discharging air at not more than 1 200 mm above the floor.

(3) A *fire damper* is not required where a *noncombustible* branch duct pierces a required *fire separation* around an *exhaust duct* riser in which the air flow is upward provided

- (a) the melting point of the branch duct is not below 760°C,
- (b) the branch duct is carried up inside the riser at least 500 mm, and
- (c) the *exhaust duct* is under negative pressure as described in Article 9.10.9.18.

(4) *Noncombustible* ducts that penetrate a *fire separation* separating a *vertical service space* from the remainder of the *building* need not be equipped with a *fire damper* at the *fire separation* provided

- (a) the ducts have a melting point above 760°C, and
- (b) each individual duct exhausts directly to the outside at the top of the *vertical service space*.

(5) A duct serving commercial cooking equipment and piercing a required *fire separation* need not be equipped with a *fire damper* at the *fire separation*.

**9.10.13.14. Fire Stop Flaps**

(1) *Fire stop flaps* in ceiling membranes required in Sentence 9.10.5.1.(4) shall be constructed in conformance with the Supplementary Guidelines.

**9.10.13.15. Doors Between Garages and Dwelling Units**

(1) A door between an attached or built-in garage and a *dwelling unit* shall be tight-fitting and weatherstripped to provide an effective barrier against the passage of gases and exhaust fumes and shall be fitted with a self-closing device.

(2) A doorway between an attached or built-in garage and a *dwelling unit* shall not be located in a room intended for sleeping.

**9.10.13.16. Door Stops**

(1) Where a door is installed so that it may damage the integrity of a *fire separation* if its swing is unrestricted, door stops shall be installed to prevent such damage.

**9.10.14. Spatial Separations between Buildings****9.10.14.1. Maximum Percentage Area of Unprotected Openings**

(1) Except as provided in Sentence (2) and Articles 9.10.14.3. to 9.10.14.11., the maximum percentage of *unprotected openings* in an *exposing building face* shall conform to Table 9.10.14.1. or to Subsection 3.2.3., whichever is the least restrictive for the *occupancy* being considered.

(2) An opening in an *exposing building face* not more than 0.013 m<sup>2</sup> shall not be considered an *unprotected opening*.



Table 9.10.14.1.

## Maximum Percentage of Unprotected Openings or Glazed Areas, % of Exposing Building Face Area

Forming Part of Sentence 9.10.14.1.(1)

Occupancy Classification of Building	Maximum Area of Exposing Building Face, m <sup>2</sup>	Limiting Distance, m													
		Less than 1.2	1.2	1.5	2.0	2.5	3.0	4.0	6.0	8.0	10.0	12.0	16.0	20.0	25.0
Residential, business and personal services and low hazard industrial	10	0	8	12	21	33	55	96	100	—	—	—	—	—	—
	15	0	8	10	17	25	37	67	100	—	—	—	—	—	—
	20	0	8	10	15	21	30	53	100	—	—	—	—	—	—
	25	0	8	9	13	19	26	45	100	—	—	—	—	—	—
	30	0	7	9	12	17	23	39	88	100	—	—	—	—	—
	40	0	7	8	11	15	20	32	69	100	—	—	—	—	—
	50	0	7	8	10	14	18	28	57	100	—	—	—	—	—
	100	0	7	8	9	11	13	18	34	56	84	100	—	—	—
	Over 100	0	7	7	8	9	10	12	19	28	40	55	92	100	—
Mercantile and medium hazard industrial	10	0	4	6	10	17	25	48	100	—	—	—	—	—	—
	15	0	4	5	8	13	18	34	82	100	—	—	—	—	—
	20	0	4	5	7	11	15	27	63	100	—	—	—	—	—
	25	0	4	5	7	9	13	22	51	94	100	—	—	—	—
	30	0	4	4	6	9	12	20	44	80	100	—	—	—	—
	40	0	4	4	6	8	10	16	34	61	97	100	—	—	—
	50	0	4	4	5	7	9	14	29	50	79	100	—	—	—
	100	0	4	4	4	5	6	9	17	28	42	60	100	—	—
	Over 100	0	4	4	4	4	5	6	10	14	20	27	46	70	100
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## 9.10.14.2 Area of Exposing Building Face

(1) The area of an *exposing building face* shall be calculated as the total area of exterior wall facing in 1 direction on any side of a *building* measured from the finished ground level to the uppermost ceiling, except that where a *building* is divided by *fire separations* into *fire compartments*, the area of *exposing building face* is permitted to be calculated for each *fire compartment* provided such separations have not less than a 45 min *fire-resistance rating*.

## 9.10.14.3. Inadequate Fire-fighting Facilities

(1) Where there is no fire department or where a fire department is not organized, trained and equipped to meet the needs of the community, the required *limiting distance* determined from Article 9.10.14.1. or required in Articles 9.10.14.12., 9.10.14.14., and 9.10.14.16., shall be doubled for a *building* that is not sprinklered.

## 9.10.14.4. Alternate Method of Determining Limiting Distance

(1) The *limiting distance* shown in Table 9.10.14.1. is permitted to be reduced provided it is not less than the square root of

- (a) the aggregate area of *unprotected openings* in an *exposing building face* in *residential occupancies, business and personal services occupancies and low hazard industrial occupancies*, and
- (b) twice the aggregate area of *unprotected openings* in *mercantile occupancies and medium hazard industrial occupancies*.

## 9.10.14.5. Openings in Walls Having a Limiting Distance Less Than 1.2 m.

(1) Openings in a wall having a *limiting distance* of less than 1.2 m shall be protected by *closures*, of other than wired glass or glass block,

whose *fire protection rating* is in conformance with the *fire-resistance rating* required for the wall.

## 9.10.14.6. Allowance for Sprinklers and Wired Glass or Glass Block

(1) The maximum area of *unprotected openings* is permitted to be doubled where the *building* is *sprinklered* provided all rooms, including closets and bathrooms, that are adjacent to the *exposing building face* and that have *unprotected openings* are *sprinklered*, notwithstanding any exemptions in the sprinkler standards referenced in Article 3.2.5.13.

(2) The maximum area of *unprotected openings* is permitted to be doubled where the *unprotected openings* are glazed with wired glass in steel frames or glass blocks as described in Articles 9.10.13.5. and 9.10.13.7.

## 9.10.14.7. Exterior Wall Construction for Irregular-Shaped or Skewed Walls

(1) For the purpose of using Table 9.10.14.11. to determine the required type of construction, cladding and *fire-resistance rating* for an exterior wall

- (a) the *exposing building face* is permitted to be divided into any number of portions and the *fire-resistance rating*, type of cladding and percentage of *unprotected openings* limitations is permitted to be determined individually for each portion based on the *limiting distance* for each portion so divided.
- (b) the *exposing building face* shall be taken as the projection of the exterior wall onto a vertical plane located so that no portion of the exterior wall of the *building* is between the vertical plane and the line to which the *limiting distance* is established in Clause (a), and

- (c) for the purpose of determining the actual area of *unprotected openings* permitted in an exterior wall, the *unprotected openings* shall be projected onto the vertical plane established in Clause (b).

(2) *Unprotected openings* in the *exposing building face* referred to in Sentence (1) shall not be permitted if the *limiting distance* is less than 1.2 m and shall be limited in conformance with the requirements for *unprotected openings* in Table 9.10.14.1. where the *limiting distance* is 1.2 m or greater.

#### 9.10.14.8. Percentage of Unprotected Openings for Irregular-Shaped or Skewed Walls

(1) For the purpose of using Table 9.10.14.1. to determine the actual percentage of *unprotected openings* permitted in an irregularly-shaped or skewed exterior wall, the location of the *exposing building face* is permitted to be taken at a vertical plane located so that there are no *unprotected openings* between the vertical plane and the line to which *limiting distance* is measured.

#### 9.10.14.9. Storeys at Street Level

(1) The *exposing building face* of a storey that faces a *street* and is at approximately the same level as the *street* is permitted to have unlimited *unprotected openings* if the *limiting distance* is not less than 9 m.

#### 9.10.14.10. Open-Air Storage Garages

(1) When a *storage garage* has all *storeys* constructed as *open-air storeys*, the *exposing building face* of such garage is permitted to have unlimited *unprotected openings* provided it has a *limiting distance* of not less than 3 m.

#### 9.10.14.11. Construction of Exposing Building Face

(1) Except as permitted in Sentence (2) and Articles 9.10.14.12. to 9.10.14.16., each *exposing building face* and any exterior wall located above an *exposing building face* that encloses an *attic* or *roof space* shall be constructed in conformance with Table 9.10.14.11. and Subsection 9.10.8.

(2) Cladding installed on *exposing building faces* and exterior walls located above *exposing building faces* that enclose an *attic* or *roof space* need not conform to "Type of Cladding Required" in Table 9.10.14.11. provided

- (a) the *limiting distance* is not less than 600 mm,
- (b) the *exposing face* is constructed with no *unprotected openings*, and
- (c) the cladding conforms to Clauses 9.10.14.12.(3)(a) to (d).

Table 9.10.14.11.

#### Minimum Construction Requirements for Exposing Building Faces

Forming Part of Article 9.10.14.11.

Occupancy Classification of Building	Maximum Area of Unprotected Openings Permitted, % of Exposing Building Face Area	Minimum Required Fire-Resistance Rating	Type of Construction Required	Type of Cladding Required
Residential, business and personal services, and low hazard industrial	0 – 10	1 h	Noncombustible Combustible or noncombustible Combustible or noncombustible	Noncombustible
	11 – 25	1 h		Noncombustible
	26 – < 100	45 min		Combustible or noncombustible
Mercantile and medium hazard industrial	0 – 10	2 h	Noncombustible Combustible or noncombustible Combustible or noncombustible	Noncombustible
	11 – 25	2 h		Noncombustible
	26 – < 100	1 h		Combustible or noncombustible
Column 1	2	3	4	5

#### 9.10.14.12. Exposing Building Face of Houses

(1) For the purposes of application of this Article

(a) the *exposing building face* is permitted to be divided into any number of portions and the *fire-resistance rating*, type of cladding and glazed area limitations is permitted to be determined individually for each portion based on the *limiting distance* for each portion so divided,

(b) the *exposing building face* shall be taken as the projection of the exterior wall onto a vertical plane located so that no portion of the exterior wall of the *building* is between the vertical plane and the line to which the *limiting distance* is established in Clause (a), and

(c) for the purpose of determining the actual percentage of glazed areas permitted in an exterior wall, the glazed area shall be projected onto the vertical plane established in Clause (b).

(2) Except as required in Article 9.10.14.3. and as provided in Sentence (4), in *buildings* containing only *dwelling units* in which there is no *dwelling unit* above another *dwelling unit*, the requirements of Article 9.10.14.11. do not apply provided that the *exposing building face*

- (a) has a *fire-resistance rating* of not less than 45 min where the *limiting distance* is less than 1.2 m, and
- (b) is clad with *non-combustible* material where the *limiting distance* is less than 600 mm.

(3) Cladding on the *exposing building face* described in Sentence (2) is permitted to be vinyl when the *limiting distance* is less than 600 mm provided the cladding



- (a) conforms to Subsection 9.27.13.,
  - (b) is installed over sheathing paper and 12.7 mm gypsum sheathing,
  - (c) has a flame spread rating not greater than 25 when tested in accordance with sentence 3.1.12.1.(2), and
  - (d) material thickness is not more than 2 mm exclusive of fasteners, joints and local reinforcements.
- (4) Glazed areas in the *exposing building face* referred to in Sentence (1)
- (a) shall not be permitted if the *limiting distance* is less than 1.2 m, and
  - (b) shall be limited in conformance with the requirements for glazed areas in Table 9.10.14.1. where the *limiting distance* is 1.2 m or greater.
- (5) The required *limiting distance* for an *exposing building face* is permitted to be measured to a point beyond the property line that is not the centre line of a *street*, lane or public thoroughfare if
- (a) the owners of the properties on which the *limiting distance* is measured and the *municipality* enter into an agreement in which such owners agree that,
    - (i) each owner covenants that, for the benefit of land owned by the other covenantors, the owner will not *construct a building* on his or her property unless the *limiting distance* for *exposing building faces* in respect of the proposed *construction* is measured in accordance with the agreement,
    - (ii) the covenants contained in the agreement are intended to run with the lands, and the agreement shall be binding on the parties and their respective heirs, executors, administrators, successors and assigns,
    - (iii) the agreement shall not be amended or deleted from title without the consent of the *municipality*, and
    - (iv) they will comply with such other conditions as the *municipality* considers necessary, including indemnification of the *municipality* by the other parties, and
  - (b) the agreement referred to in Clause (a) is registered against the title of the properties to which it applies.

#### 9.10.14.13. Combustible Projections

(1) Except for *buildings* containing 1 or 2 *dwelling units* only, *combustible* projections on the exterior of a wall that are more than 1 000 mm above ground level, such as balconies, platforms, canopies, eave projections and stairs, and that could expose an adjacent *building* to fire spread, shall not be permitted within

- (a) 1 200 mm of a property line or the centreline of a *public way*, or
- (b) 2 400 mm of a *combustible* projection on another *building* on the same property.

#### 9.10.14.14. Detached Garage or Accessory Building Serving One Dwelling Unit

(1) Except as required in Article 9.10.14.3., the *exposing building face* of a garage or accessory *building* that serves one *dwelling unit* only and is detached from any *building* shall have a *fire-resistance* rating of at least 45 min, except that no *fire-resistance* rating is required where the *limiting distance* is 600 mm or greater.

(2) The exterior *cladding* of detached garages or accessory *buildings* described in Sentence (1) is not required to be *noncombustible* regardless of the *limiting distance*.

(3) The percentage of glazed areas permitted in the *exposing building face* of detached garages or accessory *buildings* described in Sentence (1) shall conform to the requirements for glazed areas in Table 9.10.14.1.

(4) The requirements for *limiting distance* shall not apply between a detached garage or accessory *building* and a *dwelling unit* where

- (a) the detached garage or accessory *building* serves only one *dwelling unit*,
- (b) the detached garage or accessory *building* is located on the same property as that *dwelling unit*, and
- (c) the *dwelling unit* served by the detached garage or accessory *building* is the only *major occupancy* on the property.

#### 9.10.14.15. Heavy Timber and Steel Columns

(1) Heavy timber and steel columns need not conform to the requirements of Article 9.10.14.11. provided the *limiting distance* is not less than 3 m.

#### 9.10.14.16. Low Fire Load Occupancies

(1) Except as required in Article 9.10.14.3., in *buildings* of 1 storey in *building height* of *noncombustible construction* classified as *low hazard industrial occupancy* which are used only for *low fire load occupancies* such as power generating plants or plants for the manufacture or storage of *noncombustible* materials, non-loadbearing wall components need not have a minimum *fire-resistance* rating provided the *limiting distance* is 3 m or more.

#### 9.10.15. Fire Stops

##### 9.10.15.1. Required Fire Stops in Concealed Spaces

(1) Concealed spaces in interior walls, ceilings and crawl spaces shall be separated by fire stops from concealed spaces in exterior walls and *attic* or *roof spaces*.

(2) Fire stops shall be provided at all interconnections between concealed vertical and horizontal spaces in interior coved ceilings, drop ceilings and soffits where the exposed construction materials within the concealed spaces have a surface *flame-spread* rating greater than 25.

(3) Fire stops shall be provided at the top and bottom of each run of stairs where they pass through a floor containing concealed space in which the exposed construction materials within the space have a surface *flame-spread* rating greater than 25.

(4) In unsprinklered *buildings* of *combustible construction*, every concealed space created by a ceiling, roof space or unoccupied attic space shall be separated by fire stops into compartments of not more than 300 m<sup>2</sup> in area where such space contains exposed construction materials having a surface *flame-spread* rating greater than 25.



(5) No dimension of such space shall exceed 20 m.

(6) Concealed spaces in mansard or gambrel style roofs, exterior cornices, balconies and canopies of *combustible construction* in which the exposed construction materials within the space have a surface *flame-spread rating* exceeding 25 shall have vertical fire stops at intervals of not more than 20 m and at points where such concealed spaces extend across the ends of required vertical *fire separations*.

#### 9.10.15.2. Required Fire Stops in Wall Assemblies

(1) Except as permitted in Sentences (2) and (3), fire stops shall be provided to block off concealed spaces within wall assemblies, including spaces created by furring

- (a) at each floor level,
- (b) at each ceiling level where the ceiling contributes to part of the required *fire-resistance rating*, and
- (c) at other locations within the wall, so that the distance between fire stops does not exceed 20 m horizontally and 3 m vertically.

(2) Fire stops required in Sentence (1) are not required provided

- (a) the width of the concealed wall space does not exceed 25 mm,
- (b) the exposed construction materials within the space are *noncombustible*, or
- (c) the exposed construction materials within the space, including insulation, but not including wiring, piping or similar services, have a *flame-spread rating* of not more than 25.

(3) Fire stops required in Sentence (1) are not required provided the wall space is filled with insulation.

#### 9.10.15.3. Fire Stop Materials

(1) Fire stops shall be constructed of not less than

- (a) 0.38 mm sheet steel,
- (b) 6 mm asbestos board,
- (c) 12.7 mm gypsum wallboard,
- (d) 12 mm plywood, OSB or waferboard, with joints having continuous support,
- (e) 2 layers of 19 mm lumber with joints staggered,
- (f) 38 mm lumber, or
- (g) materials conforming to Sentence 3.1.11.7.(1).

#### 9.10.15.4. Penetration of Fire Stops

(1) Where fire stops are pierced by pipes, ducts or other elements, the effectiveness of the fire stops shall be maintained around such elements.

#### 9.10.16. Flame Spread Limits

##### 9.10.16.1. Flame Spread Rating of Interior Surfaces

(1) Except as otherwise provided in this Subsection, the exposed surface of every interior wall and ceiling, including skylights and glazing, shall have a surface *flame-spread rating* of not more than 150.

(2) Except as permitted in Sentence (3), doors need not conform to Sentence (1) provided they have a surface *flame-spread rating* of not more than 200.

(3) Doors within *dwelling units*, other than vehicle garage doors, need not conform to Sentences (1) and (2).

#### 9.10.16.2. Ceilings in Exits or Public Corridors

(1) At least 90% of the exposed surface of every ceiling in an *exit* or unsprinklered ceiling in a *public corridor* shall have a surface *flame-spread rating* of not more than 25.

#### 9.10.16.3. Walls in Exits

(1) Except as provided in Sentence (2), at least 90% of the exposed surfaces of every wall in an *exit* shall have a surface *flame-spread rating* of not more than 25.

(2) At least 75% of the wall surface of a lobby used as an *exit* in Article 9.9.8.5. shall have a surface *flame-spread rating* of not more than 25.

#### 9.10.16.4. Exterior Exit Passageways

(1) Where an exterior *exit* passageway provides the only *means of egress* from the rooms or *suites* it serves, the wall and ceiling finishes of that passageway, including the soffit beneath and the *guard* on the passageway, shall have a surface *flame-spread rating* of not more than 25, except that up to 10% of the total wall area and 10% of the total ceiling area is permitted to have a surface *flame-spread rating* of not more than 150.

#### 9.10.16.5. Walls in Public Corridors

(1) At least 90% of the total wall surface in any unsprinklered *public corridor* shall have a surface *flame-spread rating* of not more than 75, or at least 90% of the upper half of such walls shall have a surface *flame-spread rating* of not more than 25.

#### 9.10.16.6. Calculation of Wall and Ceiling Areas

(1) Skylights, glazing, *combustible* doors, and *combustible* light diffusers and lenses shall not be considered in the calculation of wall and ceiling areas in this Subsection.

#### 9.10.16.7. Corridors Containing an Occupancy

(1) Where a *public corridor* or a corridor used by the public contains an *occupancy*, the interior finish materials used on the walls or ceiling of such *occupancy* shall have a surface *flame-spread rating* in conformance with that required for *public corridors*.

#### 9.10.16.8. Light Diffusers and Lenses

(1) Light diffusers and lenses having *flame-spread ratings* that exceed those permitted for the ceiling finish, shall conform to the requirements of Sentence 3.1.13.4.(1).

#### 9.10.16.9. Combustible Skylights

(1) Individual *combustible* skylights in corridors required to be separated from the remainder of the *building* by *fire separations* shall not exceed 1 m<sup>2</sup> in area and shall be spaced not less than 1 200 mm apart.

**9.10.16.10. Protection of Foamed Plastics**

(1) Except as provided in Sentence (2), foamed plastics which form part of a wall or ceiling assembly in *combustible construction* shall be protected from adjacent space in the *building* other than adjacent concealed spaces within *attic or roof spaces*, *crawl spaces*, and wall assemblies, by

- (a) one of the finishes described in Subsections 9.29.4. to 9.29.9.,
- (b) sheet metal mechanically fastened to the supporting assembly independent of the insulation and having a thickness of not less than 0.38 mm and a melting point not below 650°C provided the building does not contain a Group C *major occupancy*, or
- (c) any thermal barrier that meets the requirements of Clause 3.1.5.11.(2)(e).

(2) Foamed plastic insulation having a *flame-spread rating* of not more than 500 is permitted to be used in factory-assembled doors in *storage garages* serving *buildings of residential occupancy* provided that

- (a) the insulation is covered on the interior with a metallic foil,
- (b) the assembly has a surface *flame-spread rating* of not more than 200, and
- (c) the assembly incorporates no air spaces.

**9.10.16.11. Walls and Ceilings in Bathrooms**

(1) The interior finish of walls and ceilings in bathrooms within *suites of residential occupancy* shall have a surface *flame-spread rating* of not more than 200.

**9.10.16.12. Coverings or Linings of Ducts**

(1) Where a covering or a lining is used with a duct, such lining or covering shall have a *flame-spread rating* conforming to Part 6.

**9.10.17. Alarm and Detection Systems****9.10.17.1. Access Provided through a Firewall**

(1) Where access is provided through a *firewall*, the requirements in this Subsection shall apply to the *floor areas* on both sides of the *firewall* as if they were in the same *building*.

**9.10.17.2. Fire Alarm System Required**

(1) Except as provided in Sentence (2), a fire alarm system shall be installed

- (a) in every *building* that contains more than 3 *storeys*, including *storeys* below the *first storey*,
- (b) where the total *occupant load* exceeds 300, or
- (c) when the *occupant load* for any *major occupancy* in Table 9.10.17.2. is exceeded.

Table 9.10.17.2.

**Maximum Occupant Load for Buildings without Fire Alarm Systems**

Forming Part of Sentence 9.10.17.2.(1)

Major Occupancy Classification	Occupant Load above which Fire Alarm System is required
<i>Residential</i>	10 (sleeping accommodation)
<i>Business and personal services, mercantile</i>	150 above or below the <i>first storey</i>
<i>Low or medium hazard industrial</i>	75 above or below the <i>first storey</i>
Column 1	2

(2) A fire alarm system is not required in a *residential occupancy* where an *exit* or *public corridor* serves not more than 4 *suites* or where each *suite* has direct access to an exterior *exit* facility leading to ground level.

**9.10.17.3. Rooms and Spaces Requiring Heat Detectors or Smoke Detectors**

(1) Where a fire alarm system is required, every *public corridor* in *buildings of residential occupancy* and every *exit* stair shaft shall be provided with *smoke detectors*.

(2) Except as provided in Sentence (3), *buildings* required to have a fire alarm system shall be equipped with *heat detectors* or *smoke detectors* in storage rooms, *service rooms*, elevator shafts, chutes, janitors closets and any other rooms where hazardous substances are intended to be used or stored.

(3) Except as required in Sentence (4), *heat detectors* and *smoke detectors* described in Sentence (2), are not required in *dwelling units* or in *sprinklered buildings* in which the sprinkler system is electrically supervised and equipped with a water flow alarm.

(4) Where a fire alarm system is required in a *hotel*, *heat detectors* shall be installed in every room in a *suite* and in every room not located in a *suite* in a *floor area* containing a *hotel* other than washrooms within a *suite*, saunas, refrigerated areas and swimming pools.

**9.10.17.4. Smoke Detectors in Recirculating Air Handling Systems**

(1) Except for a recirculating air system serving not more than 1 *dwelling unit*, where a fire alarm system is required to be installed, every recirculating air handling system shall be designed to prevent the circulation of smoke upon a signal from a duct-type *smoke detector* where such system supplies more than one *suite* on the same floor or serves more than 1 *storey*.

**9.10.17.5. Portions of Buildings Considered as Separate Buildings**

(1) Except as provided in Sentence (2), where a vertical *fire separation* having a *fire-resistance rating* of at least 1 h separates a portion of a *building* from the remainder of the *building* and there are no openings through the *fire separation* other than those for piping, tubing, wiring and conduit, the requirements for fire alarm and detection systems is permitted to be applied to each portion so separated as if it were a separate *building*.

(2) The permission in Sentence (1) to consider separated portions of a *building* as separate *buildings* does not apply to *service rooms* and storage rooms.

**9.10.17.6. Design and Installation Requirements**

(1) Fire alarm, fire detection and smoke detection devices and systems, and their installation, shall conform to Subsection 3.2.4.



**9.10.17.7. Reserved****9.10.17.8. Open-Air Storage Garages**

(1) Except as required in Article 9.10.17.1., a fire alarm system is not required in a *storage garage* conforming to Article 3.2.2.60. provided there are no other *occupancies* in the *building*.

**9.10.17.9. Fire Alarm System in a Hotel**

(1) If a fire alarm system is required in a *building* containing a *hotel*, a single stage fire alarm system shall be provided.

**9.10.18. Smoke Alarms****9.10.18.1. Required Smoke Alarms**

(1) *Smoke alarms* conforming to CAN/ULC-S531, "Standard for Smoke Alarms" shall be installed in each *dwelling unit* and in each sleeping room not within a *dwelling unit*.

**9.10.18.2. Location of Smoke Alarms**

(1) Within *dwelling units*, sufficient *smoke alarms* shall be installed so that

- (a) there is at least one *smoke alarm* on each floor level, including *basements*, that is 900 mm or more above or below an adjacent floor level,
- (b) each bedroom is protected by a *smoke alarm* either inside the bedroom or, if outside, within 5 m, measured following corridors and doorways, of the bedroom door, and
- (c) the distance, measured following corridors and doorways, from any point on a floor level to a *smoke alarm* on the same level does not exceed 15 m.

(2) *Smoke alarms* required in Article 9.10.18.1. and Sentence (1) shall be installed on or near the ceiling.

(3) *Smoke alarms* required in Sentences (1) and (2) shall be audible within the bedrooms when the intervening doors are closed.

(4) *Smoke alarms* required in Sentences (1) and (2) shall be installed in conformance with the manufacturers instructions.

**9.10.18.3. Power Supply**

(1) Except as permitted in Sentence (2), *smoke alarms* shall be installed by permanent connections to an electrical circuit and shall have no disconnect switch between the overcurrent circuit device and the *smoke alarm*.

(2) Where the *building* is not supplied with electrical power, *smoke alarms* are permitted to be battery operated.

**9.10.18.4. Interconnection of Smoke Alarms**

(1) Where more than one *smoke alarm* is required in a *dwelling unit*, the *smoke alarms* shall be wired so that the activation of one alarm will cause all alarms within the *dwelling unit* to sound.

**9.10.18.5. Instructions for Maintenance and Repair**

(1) Where instructions are necessary to describe the maintenance and care required for *smoke alarms* to ensure continuing satisfactory performance, they shall be posted in a location where they will be readily available to the occupants for reference.

**9.10.18.6. Silencing of Alarm Noise**

(1) It is permitted to incorporate a manually operated device within the circuitry of a *smoke alarm* installed within a *dwelling unit* that will silence the noise emitted by the *smoke alarm* which initiated the alarm for a period of not more than 5 min, after which the *smoke alarm* will reset and again sound the alarm if the level, of smoke in the vicinity is sufficient to reactivate the *smoke alarm*.

**9.10.19. Fire-fighting****9.10.19.1. Windows or Access Panels Required**

(1) Except as provided in Sentence (3), a window or access panel providing an opening not less than 1 100 mm high and 550 mm wide and having a sill height of not more than 900 mm above the floor shall be provided on the second and third *storeys* of every *building* in at least one wall facing on a *street* if such *storeys* are not *sprinklered*.

(2) Access panels required in Sentence (1) shall be readily openable from both inside and outside or be glazed with plain glass.

(3) Access panels required in Sentence (1) need not be provided in *buildings* containing only *dwelling units* where there is no *dwelling unit* above another *dwelling unit*.

**9.10.19.2. Access to Basements**

(1) Except in *basements* serving not more than one *dwelling unit*, each unsprinklered *basement* exceeding 25 m in length or width shall be provided with direct access to the outdoors to not less than one *street*.

(2) Access required in Sentence (1) is permitted to be provided by a door, window or other means that provides an opening not less than 1 100 mm high and 550 mm wide, the sill height of which shall not be more than 900 mm above the floor.

(3) Access required in Sentence (1) is also permitted to be provided by an interior stair accessible from the outdoors.

**9.10.19.3. Fire Department Access to Buildings**

(1) Access for fire department equipment shall be provided to each *building* by means of a *street*, private roadway or yard.

(2) Where access to a *building* as required in Sentence (1) is provided by means of a roadway or yard, the design and location of such roadway or yard shall take into account connection with public thoroughfares, weight of fire fighting equipment, width of roadway, radius of curves, overhead clearance, location of fire hydrants, location of fire department connections and vehicular parking.

**9.10.19.4. Portable Extinguishers**

(1) Portable extinguishers shall be installed in all *buildings*, except within *dwelling units*, in conformance with the provisions of the Ontario Fire Code made under the *Fire Marshals Act*.

**9.10.19.5. Freeze Protection for Fire Protection Systems**

(1) Equipment forming part of a fire protection system that may be adversely affected by freezing temperatures and that is located in an unheated area shall be protected from freezing.



**9.10.20. Fire Protection for Construction Camps****9.10.20.1. Requirements for Construction Camps**

(1) Except as provided in Articles 9.10.20.2. to 9.10.20.9., *camp*s for housing of workers shall conform to Subsections 9.10.1. to 9.10.19.

**9.10.20.2. Separation of Sleeping Rooms**

(1) Except for sleeping rooms within *dwelling units*, sleeping rooms in a *building* in a *camp* for housing of workers shall be separated from each other and from the remainder of the *building* by a *fire separation* having not less than a 30 min *fire-resistance rating*.

**9.10.20.3. Floor Assemblies Between the First and Second Storey**

(1) Except in a *dwelling unit*, a floor assembly in a *building* in a *camp* for housing of workers separating the *first storey* and the *second storey* shall be constructed as a *fire separation* having not less than a 30 min *fire-resistance rating*.

**9.10.20.4. Walkways Connecting Buildings**

(1) Walkways of *combustible construction* connecting *buildings* shall be separated from each connected *building* by a *fire separation* having not less than a 45 min *fire-resistance rating*.

**9.10.20.5. Spatial Separations**

(1) *Buildings* in a *camp* for housing of workers shall be separated from each other by a distance of not less than 10 m unless otherwise permitted in Subsection 9.10.14.

**9.10.20.6. Flame Spread Ratings**

(1) Except in *dwelling units* and except as provided in Sentence (2), the surface *flame-spread rating* of wall and ceiling surfaces in corridors and *walkways*, exclusive of doors, shall not exceed 25 over not less than 90 per cent of the exposed surface area and not more than 150 over the remaining surface area.

(2) Except within *dwelling units*, corridors that provide *access to exit* from sleeping rooms and having a *fire-resistance rating* of not less than 45 min shall have a *flame-spread rating* conforming to the appropriate requirements in Subsection 9.10.16.

**9.10.20.7. Smoke Detectors**

(1) Except in *dwelling units*, corridors providing *access to exit* from sleeping rooms in every *building* in a *camp* for housing of workers with sleeping accommodation for more than 10 persons shall have a *smoke detector* connected to the *building alarm system*.

**9.10.20.8. Portable Fire Extinguishers**

(1) Each *building* in a *camp* for housing of workers shall be provided with portable fire extinguishers in conformance with the provisions of the Ontario Fire Code made under the *Fire Marshals Act*.

**9.10.20.9. Hose Stations**

(1) Every *building* in a *camp* for housing of workers providing sleeping accommodation for more than 30 persons shall be provided with a hose station that is protected from freezing and equipped with a hose of sufficient length so that every portion of the *building* is within the range of a hose stream.

(2) Hose stations required in Sentence (1) shall be located near an *exit*.

(3) Hoses referred to in Sentence (1) shall be not less than 19 mm inside diam and shall be connected to a central water supply or to a storage tank having a capacity of at least 4 500 L with a pumping system capable of supplying a flow of at least 5 L/s at a gauge pressure of 300 kPa.

**9.10.21. Fire Protection for Gas and Electric Ranges****9.10.21.1. Installation of Gas Ranges**

(1) Reserved

(2) Clearances for gas *ranges* shall be not less than those provided in Articles 9.10.21.2. and 9.10.21.3.

**9.10.21.2. Vertical Clearances**

(1) Except as provided in Sentence (2), framing, finishes and cabinetry installed directly above the location of the range shall be not less than 750 mm above the level of the electric or gas range burners or elements.

(2) The vertical clearance described in Sentence (1) for framing, finishes and cabinets located directly above the location of the range is permitted to be reduced to 600 mm above the level of the elements or burners provided the framing, finishes and cabinets

(a) are *noncombustible*, or

(b) are protected by

(i) asbestos millboard not less than 6 mm thick, covered with sheet metal not less than 0.33 mm thick, or

(ii) a metal hood with a 125 mm projection beyond the framing, finishes and cabinets.

**9.10.21.3. Horizontal Clearances**

(1) Except as provided in Sentences (2) to (3), *combustible* wall framing, finishes or cabinets within 450 mm of the area where the *range* is to be located shall be protected above the level of the heating elements by material providing fire resistance not less than that of a 9.5 mm thickness of gypsum board.

(2) Counter-top splash boards or back plates which extend above the level of the heating elements need not be protected as described in Sentence (1).

(3) Except for cabinetry described in Article 9.10.21.2., cabinetry located not less than 450 mm above the level of the heating elements need not be protected as described in Sentence (1).

**Section 9.11. Sound Control****9.11.1. Sound Transmission Class Rating (Airborne Sound)****9.11.1.1. Determination of Sound Class Transmission Rating**

(1) Sound transmission class ratings shall be determined in accordance with ASTM E413, "Classification for Rating Sound Insulation", using results from measurements in accordance with

(a) ASTM E 90, "Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions", or

(b) ASTM E 336, "Measurement of Airborne Sound Insulation in Buildings".

**9.11.2. Required Sound Control Locations (Airborne Sound)****9.11.2.1. Minimum Sound Transmission Class Rating**

(1) Except as provided in Sentence (2), every *dwelling unit* and every *suite* in *hotels* and *motels*, shall be separated from every other

space in a *building* in which noise may be generated, by a construction providing a sound transmission class rating of at least 50, measured in accordance with Subsection 9.11.1. or as listed in Tables 9.10.3.1.A. and 9.10.3.1.B. in the Supplementary Guidelines.

(2) Where a *dwelling unit* is adjacent to an elevator shaft or a refuse chute, the separating construction shall have a sound transmission class rating of at least 55, measured in accordance with Subsection 9.11.1. or listed in Tables 9.10.3.1.A. and 9.10.3.1.B. in the Supplementary Guidelines.

#### 9.11.2.2. Building Services in an Assembly

(1) *Building services* located in an assembly required to have a sound transmission class rating shall be installed in a manner that will not decrease the required rating of the assembly.

### Section 9.12. Excavation

#### 9.12.1. General

##### 9.12.1.1. Removal of Topsoil and Organic Matter

(1) The topsoil and vegetable matter in all unexcavated areas under a *building* shall be removed.

(2) In localities where termite infestation is known to be a problem, all stumps, roots and other wood debris shall be removed from the soil to a depth of not less than 300 mm in unexcavated areas under a *building*.

(3) The bottom of every *excavation* shall be free of all organic material.

#### 9.12.1.2. Standing Water

(1) *Excavations* shall be kept free of standing water.

#### 9.12.1.3. Protection from Freezing

(1) The bottom of *excavations* shall be kept from freezing throughout the entire construction period.

#### 9.12.1.4. Precautions During Excavation

(1) Every *excavation* shall be undertaken in such a manner to prevent damage to adjacent property, existing structures, utilities, roads and sidewalks at all stages of construction.

(2) Material shall not be placed nor shall equipment be operated or placed in or adjacent to an *excavation* in a manner that may endanger the integrity of the *excavation* or its supports.

#### 9.12.2. Depth

##### 9.12.2.1. Excavation to Undisturbed Soil

(1) *Excavations for foundations* shall extend to undisturbed soil.

##### 9.12.2.2. Minimum Depth of Foundations

(1) Except as provided in Sentences (4) and (5), the minimum depth of *foundations* below finished ground level shall conform to Table 9.12.2.2.

Table 9.12.2.2.

#### Minimum Depths of Foundation

Forming Part of Sentence 9.12.2.2.(1)

Type of Soil	Foundation containing heated Basement or Crawl Space <sup>(1)</sup>		Foundation Containing no Heated Space <sup>(2)</sup>	
	Good Soil Drainage <sup>(3)</sup>	Poor Soil Drainage	Good Soil Drainage <sup>(3)</sup>	Poor Soil Drainage
Rock	No limit	No limit	No limit	No limit
Coarse grained soils	No limit	No limit	No limit	Below the depth of frost penetration
Silt	No limit	No limit	Below the depth of frost penetration	Below the depth of frost penetration
Clay or soils not clearly defined	1.2 m	1.2 m	1.2 m but not less than the depth of frost penetration	1.2 m but not less than the depth of frost penetration
Column 1	2	3	4	5

#### Notes to Table 9.12.2.2.:

(1) Foundation not insulated to reduce heat loss through the footings.

(2) Including foundations containing heated space insulated to reduce heat loss through the footings.

(3) To not less than the depth of frost penetration.

(2) Where a *foundation* is insulated in a manner that will reduce the heat flow to the *soil* beneath the footings, the *foundation* depth shall conform to that required for *foundations* containing no heated space.

(3) The minimum depth of *foundations* for exterior concrete steps with more than 2 risers shall conform to Sentences (1) to (5).

(4) Concrete steps with 1 and 2 risers are permitted to be laid on ground level.

(5) The *foundation* depths required in Sentence (1) are permitted to be decreased where experience with local *soil* conditions shows that lesser depths are satisfactory, or where the *foundation* is designed for lesser depths.

(6) The *foundation* depths required in Sentence (1) do not apply to *foundations* for buildings of other than masonry or masonry veneer construction

(a) whose superstructure conforms with the requirements of the deformation resistance test in CAN/CSA-Z240.2.1., "Structural Requirements for Mobile Homes", or

(b) used as accessory *buildings* of not more than 1 *storey* in *building height* and not more than 50 m<sup>2</sup> in *building area*.

### 9.12.3. Backfill

#### 9.12.3.1. Placement of Backfill

(1) Backfill shall be placed to avoid damaging the *foundation* wall, the drainage tile, drainage layer, externally applied thermal insulation, waterproofing and dampproofing of the wall.

#### 9.12.3.2. Grading of Backfill

(1) Backfill shall be graded to prevent drainage towards the *foundation* after settling.

#### 9.12.3.3. Deleterious Debris and Boulders

(1) Backfill within 600 mm of the *foundation* shall be free of deleterious debris and boulders larger than 250 mm diam.

#### 9.12.3.4. Lateral Support of Foundation Wall

(1) Where the height of *foundation* wall is such that lateral support is required, or where the required concrete strength of the wall has not been reached, the wall shall be braced or laterally supported before backfilling.

### 9.12.4. Trenches Beneath Footings

#### 9.12.4.1. Compacting or Filling With Concrete

(1) The *soil* in trenches beneath footings for sewers and watermain shall be compacted by tamping up to the level of the footing base, or shall be filled with concrete having a strength not less than 10 MPa to support the footing.

## Section 9.13. Dampproofing, Waterproofing and Soil Gas Control

### 9.13.1. General

#### 9.13.1.1. Required Dampproofing

(1) Except as provided in Article 9.13.1.2., where the exterior finished ground level is at a higher elevation than the ground level inside the *foundation* walls, exterior surfaces of *foundation* walls below ground level shall be dampproofed.

(2) Except as provided in Sentence (3) and Article 9.13.1.2., floors-on-ground shall be dampproofed.

(3) Floors in garages, floors in unenclosed portions of *buildings* and floors installed over granular *fill* in conformance with Article 9.16.2.1. need not be dampproofed.

(4) Dampproofing in Sentence (1) is not required where the exterior surfaces of *foundation* walls below ground level are waterproofed.

#### 9.13.1.2. Required Waterproofing

(1) Where hydrostatic pressure occurs, floors-on-ground and exterior surfaces of walls below ground level shall be waterproofed.

(2) Roofs of underground structures shall be waterproofed to prevent the entry of water into the structure.

#### 9.13.1.3. Required Soil Gas Control

(1) Except as provided in Sentence (2), all wall, roof and floor assemblies in contact with the ground shall be constructed to resist the leakage of *soil* gas from the ground into the *building*.

(2) Construction to resist leakage of *soil* gas into the *building* is not required for

(a) garages and unenclosed portions of *buildings*,

(b) *buildings* constructed in areas where it can be demonstrated that *soil* gas does not constitute a hazard, or

(c) *buildings* that contain a single *dwelling unit* and are constructed to provide for sub-floor depressurization in accordance with the Supplementary Guidelines.

#### 9.13.1.4. Standards for Application

(1) The method of application of all bituminous waterproofing and dampproofing materials shall conform to

(a) CAN/CGSB 37.3-M, "Application of Emulsified Asphalts for Dampproofing or Waterproofing",

(b) CGSB 37-GP-12Ma, "Application of Unfilled Cutback Asphalt for Dampproofing", or

(c) CAN/CGSB-37.22-M, "Application of Unfilled Cutback Tar Foundation Coating for Dampproofing".

### 9.13.2. Material

#### 9.13.2.1. Material Standards

(1) Except as otherwise specified in this Section, materials used for exterior dampproofing or waterproofing shall conform to

(a) CAN/CGSB-37.1-M, "Chemical Emulsified Type, Emulsified Asphalt for Dampproofing",

(b) CAN/CGSB-37.2-M, "Emulsified Asphalt, Mineral Colloid Type, Unfilled, for Dampproofing and Waterproofing and for Roof Coatings",

(c) CGSB 37-GP-6Ma, "Asphalt, Cutback, Unfilled, for Dampproofing",

(d) CAN/CGSB-37.16-M, "Filled, Cutback Asphalt for Dampproofing and Waterproofing",

(e) CGSB 37-GP-56M, "Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing",

(f) CGSB 37-GP-18Ma, "Tar, Cutback, Unfilled, for Dampproofing",

(g) CAN/CGSB-51.34-M, "Vapour Barrier, Polyethylene Sheet, for Use in Building Construction", or

(h) CSA A123.4, "Bitumen for Use in Construction of Built-Up Roof Coverings and Dampproofing and Waterproofing Systems".



(2) Materials used to provide a barrier to *soil* gas ingress shall conform to CAN/CGSB-51.34-M, "Vapour Barrier, Polyethylene Sheet, for Use in Building Construction".

### 9.13.3. Dampproofing of Walls

#### 9.13.3.1. Preparation of Surface

(1) Unit masonry walls to be dampproofed shall be

(a) parged on the exterior face below ground level with not less than 6 mm of mortar conforming to Section 9.20, and

(b) coved over the footing when the first course of block is laid.

(2) Concrete walls to be dampproofed shall have holes and recesses resulting from the removal of form ties sealed with cement mortar or dampproofing material.

#### 9.13.3.2. Application of Dampproofing Material

(1) Dampproofing material shall be applied over the parging or concrete below ground level.

#### 9.13.3.3. Interior Dampproofing of Walls

(1) Where a separate interior finish is applied to a concrete or unit masonry wall which is in contact with the *soil*, or where wood members are applied to such walls for the installation of insulation or finish, the interior surface of the *foundation* wall below ground level shall be dampproofed.

(2) The dampproofing required in Sentence (1) shall extend from the *basement* floor and shall terminate at ground level.

(3) No membrane or coating with a permeance less than 170 ng/(Pa.s.m<sup>2</sup>) shall be applied to the interior surface of the *foundation* wall above ground level between the insulation and the *foundation* wall.

#### 9.13.3.4. Dampproofing of Preserved Wood Foundation Walls

(1) Preserved wood *foundation* walls shall be dampproofed as described in CAN3-S406, "Construction of Preserved Wood Foundations".

### 9.13.4. Dampproofing of Floors-on-Ground

#### 9.13.4.1. Location of Dampproofing

(1) When floors are dampproofed, the dampproofing shall be installed below the floor, except that where a separate floor is provided over a slab, the dampproofing is permitted to be applied to the top of the slab.

#### 9.13.4.2. Dampproofing below the Floor

(1) When installed below the floor, dampproofing membranes shall consist of polyethylene not less than 0.15 mm thick, or type S roll roofing.

(2) Joints in dampproofing membranes shall be lapped not less than 300 mm.

#### 9.13.4.3. Dampproofing above the Slab

(1) When installed above the slab, dampproofing shall consist of not less than

(a) 2 mopped-on coats of bitumen,

(b) 0.05 mm polyethylene, or

(c) other material providing equivalent performance.

### 9.13.5. Waterproofing of Walls

#### 9.13.5.1. Preparation of Surface

(1) Except where it can be shown to be unnecessary, unit masonry walls to be waterproofed shall be parged on exterior surfaces below ground level with not less than 6 mm of mortar conforming to Section 9.20.

(2) Concrete walls to be waterproofed shall have all holes and recesses resulting from removal of form ties sealed with mortar or waterproofing material.

#### 9.13.5.2. Application of Waterproofing Membranes

(1) Concrete or unit masonry walls to be waterproofed shall be covered with not less than 2 layers of bitumen-saturated membrane, with each layer cemented in place with bitumen and coated over-all with a heavy coating of bitumen.

### 9.13.6. Waterproofing of Floors-on-Ground

#### 9.13.6.1. Floor Waterproofing System

(1) *Basement* floors-on-ground to be waterproofed shall have a system of membrane waterproofing provided between 2 layers of concrete, each of which shall be not less than 75 mm thick, with the floor membrane mopped to the wall membrane to form a complete seal.

### 9.13.7. Soil Gas

#### 9.13.7.1. Soil Gas Control

(1) Where methane or radon gases are known to be a problem, construction shall comply with the requirements for *soil gas* control in the Supplementary Guidelines.

## Section 9.14. Drainage

### 9.14.1. Scope

#### 9.14.1.1. Application

(1) This Section applies to subsurface drainage and to surface drainage.

#### 9.14.1.2. Crawl Spaces

(1) Drainage for crawl spaces shall conform to Section 9.18.

#### 9.14.1.3. Floors-on-Ground

(1) Drainage requirements beneath floors-on-ground shall conform to Section 9.16.

### 9.14.2. Foundation Drainage

#### 9.14.2.1. Foundation Wall Drainage

(1) Unless it can be shown to be unnecessary, drainage shall be provided at the bottom of every *foundation* wall that contains the *building* interior.

(2) Except as permitted in Sentences (4), (5) and (6), where the insulation on a *foundation* wall extends to more than 900 mm below the adjacent exterior ground level

(a) a drainage layer shall be installed adjacent to the exterior surface of a *foundation* wall consisting of

(i) not less than 19 mm mineral fibre insulation with a density of not less than 57 kg/m<sup>3</sup>, or

(ii) not less than 100 mm of free draining granular material, or

(b) a system shall be installed which can be shown to provide equivalent performance to that provided by the materials described in Clause (a).

(3) Where mineral fibre insulation, crushed *rock* or other drainage layer medium is provided adjacent to the exterior surface of a *foundation* wall, it shall extend to the footing level and facilitate drainage of ground water to the *foundation* drainage system.

(4) Except when the insulation provides the drainage layer required in Clause (2)(a), when exterior insulation is provided, the drainage layer shall be installed on the exterior face of the insulation.

(5) The drainage layer required in Sentence (2) is not required

(a) when the *foundation* wall is not required to be dampproofed, or

(b) when the *foundation* wall is waterproofed.

(6) The drainage layer in Sentence (1) is only required where the *foundation* wall is constructed after the day this Regulation comes into force.

(7) Where drainage is required in Sentence (1), the drainage shall conform to Subsection 9.14.3. or 9.14.4.

### 9.14.3. Drainage Tile and Pipe

#### 9.14.3.1. Material Standards

(1) Drain tile and drain pipe for *foundation* drainage shall conform to

(a) ASTM C 4, "Clay Drain Tile",

(b) ASTM C 412M, "Concrete Drain Tile (Metric)",

(c) ASTM C 444M, "Perforated Concrete Pipe (Metric)",

(d) ASTM C 700, "Vitrified Clay Pipe, Extra Strength, Standard Strength and Perforated",

(e) CAN/CGSB-34.22-M, "Pipe, Asbestos-Cement, Drain",

(f) CAN/CSA-B182.1-M, "Plastic Drain and Sewer Pipe and Pipe Fittings",

(g) CAN3-G401, "Corrugated Steel Pipe Products", or

(h) BNQ 3624-115, "Thermo-Plastic Pipe—Flexible Corrugated Tubing and Fittings for Soil Drainage".

#### 9.14.3.2. Minimum Size

(1) Drain tile or pipe used for *foundation* drainage shall be not less than 100 mm in diam.

#### 9.14.3.3. Installation

(1) Drain tile or pipe shall be laid on undisturbed or well-compacted *soil* so that the top of the tile or pipe is below the bottom of the floor slab or crawl space.

(2) Drain tile or pipe with butt joints shall be laid with 6 mm to 10 mm open joints.

(3) The top half of joints referred to in Sentence (2) shall be covered with sheathing paper, 0.10 mm polyethylene or No.15 asphalt or tar-saturated felt.

(4) The top and sides of drain pipe or tile shall be covered with not less than 150 mm of crushed stone or other coarse clean granular material containing not more than 10% of material that will pass a 4 mm sieve.

### 9.14.4. Granular Drainage Layer

#### 9.14.4.1. Type of Granular Material

(1) Granular material used to drain the bottom of a *foundation* shall consist of a continuous layer of crushed stone or other coarse clean granular material containing not more than 10% of material that will pass a 4 mm sieve.

#### 9.14.4.2. Installation

(1) Granular material described in Article 9.14.4.1. shall be laid on undisturbed or compacted *soil* to a minimum depth of not less than 125 mm beneath the *building* and extend not less than 300 mm beyond the outside edge of the footings.

#### 9.14.4.3. Grading

(1) The bottom of an *excavation* drained by a granular layer shall be graded so that the entire area described in Article 9.14.4.2. is drained to a sump conforming to Article 9.14.5.2.

#### 9.14.4.4. Wet Site Conditions

(1) Where because of wet site conditions *soil* becomes mixed with the granular drainage material, sufficient additional granular material shall be provided so that the top 125 mm is kept free of *soil*.

### 9.14.5. Drainage Disposal

#### 9.14.5.1. Drainage Disposal

(1) *Foundation* drains shall drain to a sewer, drainage ditch or dry well.

#### 9.14.5.2. Sump Pits

(1) Where gravity drainage is not practical, a covered sump with an automatic pump shall be installed to discharge the water into a sewer, drainage ditch or dry well.

(2) Covers for sump pits shall be designed to resist removal by children.

#### 9.14.5.3. Dry Wells

(1) Dry wells are permitted to be used only when located in areas where the natural *groundwater* level is below the bottom of the dry well.

(2) Dry wells shall be not less than 5 m from the *building* *foundation* and located so that drainage is away from the *building*.

### 9.14.6. Surface Drainage

#### 9.14.6.1. Surface Drainage

(1) The *building* shall be located or the *building* site graded so that water will not accumulate at or near the *building* and will not adversely affect adjacent properties.

**9.14.6.2. Drainage away from Wells or Septic Disposal Beds**

(1) Surface drainage shall be directed away from the location of a water supply well or septic tank disposal bed.

**9.14.6.3. Window Wells**

(1) Every window well shall be drained to the footing level or other suitable location.

**9.14.6.4. Catch Basin**

(1) Where runoff water from a driveway is likely to accumulate or enter a garage, a catch basin shall be installed to provide adequate drainage.

**9.14.6.5. Downspouts**

(1) Downspouts shall conform to Article 9.26.18.2.

**Section 9.15. Footings and Foundations****9.15.1. Scope****9.15.1.1. Application**

(1) Except as provided in Articles 9.15.1.2. and 9.15.1.3. and 9.15.1.4., this Section applies to poured-in-place concrete or unit masonry *foundation* walls and poured-in-place concrete footings on *soils* with an allowable bearing pressure of 75 kPa or greater for *buildings* of wood frame or masonry construction.

(2) Except as provided in Sentences (3) and (4), *foundations* for applications other than as described in Sentence (1) shall be designed in accordance with Section 9.4.

(3) Where a *foundation* is erected on filled ground, peat or sensitive clay, the footing sizes shall be designed in conformance with Section 4.2.

(4) For the purpose of Sentence (3), sensitive clay means the grain size of the majority of the particles is smaller than 0.002 mm, including leda clay.

**9.15.1.2. Permafrost**

(1) *Buildings* erected on permafrost shall have *foundations* designed by a *designer* competent in this field in accordance with the appropriate requirements of Part 4.

**9.15.1.3. Wood-Frame Foundations**

(1) *Foundations* of wood frame construction are permitted to be used provided they conform to Sentence (2) or (3).

(2) Except as provided in Sentence (3), wood-frame *foundations* shall be designed in conformance with Part 4.

(3) Wood-frame *foundations* conforming to CAN3-S406, "Construction of Preserved Wood Foundations" need not comply with Sentence (2) provided

(a) they are supported on *soil* having an allowable bearing pressure of not less than 75 kPa, and

(b) their configuration conforms with the design assumptions stated in the standard.

**9.15.1.4. Foundations for Deformation Resistant Buildings**

(1) Where the superstructure of a detached *building* conforms to the requirements of the deformation resistance test in CAN/CSA-Z240.2.1., "Structural Requirements for Mobile Homes", the *foundation* is permitted to be constructed in conformance with CSA Z240.10.1., "Site Preparation, Foundation and Anchorage of Mobile Homes".

**9.15.2. General****9.15.2.1. Concrete**

(1) Concrete shall conform to Section 9.3.

**9.15.2.2. Concrete Block**

(1) Concrete block shall conform to CAN/CSA-A165.1, "Concrete Masonry Units" and shall have a compressive strength over the net area of the block of not less than 15 MPa.

**9.15.2.3. Unit Masonry Construction**

(1) Mortar, mortar joints, corbelling and protection for unit masonry shall conform to Section 9.20.

**9.15.2.4. Pier Type Foundations**

(1) Where pier type *foundations* are used, the piers shall be designed to support the applied loads from the superstructure.

(2) Where piers are used as a *foundation* system in a *building* of 1 storey in *building height*, the piers shall be installed to support the principal framing members and shall be spaced not more than 3.5 m apart along the framing, unless the piers and their footings are designed for larger spacings.

(3) The height of piers described in Sentence (2) shall not exceed 3 times their least dimension at the base of the pier.

(4) Where concrete block is used for piers described in Sentence (2), they shall be laid with cores placed vertically, and when the width of the *building* is 4.3 m or less, placed with their longest dimension at right angles to the longest dimension of the *building*.

**9.15.3. Footings****9.15.3.1. Footings Required**

(1) Footings shall be provided under walls, pilasters, columns, piers, fireplaces and *chimneys* that bear on *soil* or *rock*, except that footings are permitted to be omitted under piers or monolithic concrete walls if the safe *loadbearing* capacity of the *soil* or *rock* is not exceeded.

**9.15.3.2. Support of Footings**

(1) Footings shall rest on undisturbed *soil*, *rock* or compacted granular *fill*.

**9.15.3.3. Footing Sizes**

(1) Except as provided in Sentences (2) to (8) and in Articles 9.15.3.4. and 9.15.3.5., the minimum footing size shall be as shown in Table 9.15.3.3. provided the length of supported joists does not exceed 4.9 m and the design *live load* on any floor supported by the footing does not exceed 2.4 kPa.

(2) Where the specified *live load* exceeds 2.4 kPa footings shall be designed in accordance with Section 4.2.



(3) Except as provided in Sentence (4), where the span of the supported joists exceeds 4.9 m, footings shall be designed in accordance with Section 4.2.

(4) Where the supported joist span exceeds 4.9 m, footing sizes are permitted to be determined according to the calculation provided in the Supplementary Guidelines.

(5) The strip footing sizes for exterior walls shown in Table 9.15.3.3. shall be increased by 65 mm for each *storey* of masonry veneer over wood frame construction supported by the *foundation* wall.

(6) The strip footing sizes for exterior walls shown in Table 9.15.3.3. shall be increased by 130 mm for each *storey* of masonry construction supported by the *foundation* wall.

(7) The minimum strip footing sizes for interior walls shown in Table 9.15.3.3. shall be increased by 100 mm for each *storey* of masonry construction supported by the footing.

(8) The footing area for column spacings other than shown in Table 9.15.3.3. shall be adjusted in proportion to the distance between columns.

**Table 9.15.3.3.**

**Minimum Footing Sizes**

Forming Part of Article 9.15.3.3.

Floors Supported	Minimum Width of Strip Footings, mm		Minimum Footing Area for Columns Spaced 3 m o.c. <sup>(1)</sup> m <sup>2</sup>
	Supporting Exterior Walls	Supporting Interior Walls	
1	250 <sup>(2)</sup>	200 <sup>(3)</sup>	0.4
2	350 <sup>(2)</sup>	350 <sup>(3)</sup>	0.75
3	450 <sup>(2)</sup>	500 <sup>(3)</sup>	1.0
Column 1	2	3	4

**Notes to Table 9.15.3.3.:**

(1) See Sentence 9.15.3.3.(8).

(2) See Sentences 9.15.3.3.(5) and (6).

(3) See Sentence 9.15.3.3.(7).

**9.15.3.4. High Water Table**

(1) Where a *foundation* rests on gravel, sand or silt in which the water table level is less than the width of the footings below the *bearing surface*, the footing width shall be not less than twice the width required by Article 9.15.3.3.

**9.15.3.5. Non-Loadbearing Walls**

(1) Footings for interior non-loadbearing masonry walls shall be not less than 200 mm wide for walls up to 5.5 m high and shall be increased by 100 mm for each additional 2 700 mm of height.

**9.15.3.6. Thickness**

(1) Footings shall be not less than 100 mm in thickness except when greater thicknesses are required because of the projection of the footing beyond the supported element.

**9.15.3.7. Footing Projection**

(1) The projection of an unreinforced footing beyond the supported element shall be not greater than the thickness of the footing.

**9.15.3.8. Step Footings**

(1) When step footings are used

(a) the vertical rise between horizontal portions shall not exceed 600 mm, for firm *soils* and 400 mm for sand or gravel, and

(b) the horizontal distance between risers shall be not less than 600 mm.

**9.15.4. Foundation Walls**

**9.15.4.1. Foundation Wall Thickness**

(1) Where average stable *soils* are encountered, the thickness of *foundation* walls subject to lateral earth pressure shall conform to Table 9.15.4.1. for walls not exceeding 2 500 mm in unsupported height.

**Table 9.15.4.1.**

**Thickness of Foundation Walls**

Forming Part of Sentence 9.15.4.1.(1)

Type of Foundation wall	Minimum Wall Thickness, mm	Maximum Height of Finish Ground Above Basement Floor or Crawl space Ground cover, m	
		Foundation Wall Laterally Unsupported at the Top <sup>(1)</sup>	Foundation Wall Laterally Supported at the Top <sup>(1)</sup>
Solid concrete 15 MPa min. strength	150	0.80	1.50
	200	1.20	2.15
	250	1.40	2.30
	300	1.50	2.30
Solid concrete 20 MPa min. strength	150	0.80	1.80
	200	1.20	2.30
	250	1.40	2.30
	300	1.50	2.30
Unit masonry	140	0.60	0.80
	190	0.90	1.20
	240	1.20	1.80
	290	1.40	2.20
Column 1	2	3	4

**Note to Table 9.15.4.1.:**

(1) See Article 9.15.4.2.

**9.15.4.2. Lateral Support**

(1) For the purposes of Article 9.15.4.1., *foundation* walls shall be considered laterally supported at the top if such walls support solid masonry superstructure or if the floor joists are embedded in the top of the *foundation* walls.

(2) *Foundation* walls shall also be considered to be supported at the top if the floor system is anchored to the top of the *foundation* walls with anchor bolts, in which case the joists are permitted to run either parallel or perpendicular to the *foundation* wall.

(3) When a *foundation* wall contains an opening more than 1 200 mm in length or contains openings in more than 25% of its length, that portion of the wall beneath such openings shall be considered laterally unsupported, unless the wall around the opening is reinforced to withstand the earth pressure.

(4) When the length of solid wall between windows is less than the average length of the windows, the combined length of such windows shall be considered as a single opening for the purposes of Sentence (3).

#### 9.15.4.3. Extension above Ground Level

(1) Exterior *foundation* walls shall extend not less than 150 mm above finished ground level.

#### 9.15.4.4. Reduction in Thickness

(1) Where the top of a *foundation* wall is reduced in thickness to permit the installation of floor joists, the reduced section shall be not more than 350 mm high and not less than 90 mm thick.

(2) Where the top of a *foundation* wall is reduced in thickness to permit the installation of a masonry exterior facing, the reduced section shall be

- (a) not less than 90 mm thick, and
- (b) tied to the facing material with metal ties conforming to Sentence 9.20.9.4.(3) spaced not more than
  - (i) 200 mm o.c. vertically, and
  - (ii) 900 mm o.c. horizontally.

(3) The space between wall and facing described in Sentence (2) shall be filled with mortar.

#### 9.15.4.5. Corbelling

(1) Corbelling of masonry *foundation* walls supporting cavity walls shall conform to Article 9.20.12.2.

#### 9.15.4.6. Crack Control Joints

(1) Crack control joints shall be provided in *foundation* walls more than 25 m long at intervals of not more than 15 m.

(2) Joints required in Sentence (1) shall be designed to resist moisture penetration and shall be keyed to prevent relative displacement of the wall portions adjacent to the joint.

#### 9.15.4.7. Interior Masonry Walls

(1) Interior masonry *foundation* walls not subject to lateral earth pressure shall conform to Section 9.20.

### 9.15.5. Joist and Beam Support

#### 9.15.5.1. Support of Floor Joists

(1) Except as permitted in Sentence (2), *foundation* walls of hollow unit masonry supporting floor joists shall be

- (a) capped with not less than 50 mm of solid masonry or concrete, or
  - (b) have the top course filled with mortar or concrete.
- (2) Capping required in Sentence (1) is permitted to be omitted
- (a) in localities where termites are not known to occur,
  - (b) when the joists are supported on a wood plate not less than 38 mm by 89 mm, and

(c) when the siding overlaps the *foundation* wall not less than 12 mm.

#### 9.15.5.2. Support of Beams

(1) Not less than a 190 mm depth of solid masonry shall be provided beneath beams supported on masonry.

(2) Where the beam referred to in Sentence (1) is supported below the top of the *foundation* walls, the ends of such beams shall be protected from the weather.

#### 9.15.5.3. Pilasters

(1) Pilasters shall be provided under beams that frame into unit masonry *foundation* walls 140 mm or less in thickness.

(2) Pilasters required in Sentence (1) shall be not less than 90 mm by 290 mm and shall be bonded or tied into the wall.

(3) The top 200 mm of pilasters required in Sentence (1) shall be solid.

### 9.15.6. Parging and Finishing

#### 9.15.6.1. Foundation Walls below Ground

(1) Concrete block *foundation* walls shall be parged on the exterior face below ground level as required in Section 9.13.

#### 9.15.6.2. Foundation Walls above Ground

(1) Exterior surfaces of concrete block *foundation* walls above ground level shall have tooled joints, or shall be rendered, parged or otherwise suitably finished.

#### 9.15.6.3. Form Ties

(1) All form ties shall be removed at least flush with the concrete surface.

## Section 9.16. Slabs-on-Ground

### 9.16.1. Scope

#### 9.16.1.1. Application

(1) This Section applies to floors supported on ground or granular *fill* which do not provide structural support for the superstructure.

#### 9.16.1.2. Structural Floor Slabs

(1) Floors-on-ground that support loads from the superstructure shall be designed in conformance with Part 4.

#### 9.16.1.3. Required Floors-on-Ground

(1) All spaces within *dwelling* units, except crawl spaces, shall be provided with a floor-on-ground, where

- (a) access is provided to the space, and
- (b) a floor supported by the structure is not provided.

#### 9.16.1.4. Dampproofing and Waterproofing

(1) Dampproofing and waterproofing shall conform to Section 9.13.

### 9.16.2. Granular Material beneath Floors

#### 9.16.2.1. Required Installation of Granular Fill

(1) Except as provided in Sentence (2), not less than 100 mm of coarse clean granular material containing not more than 10% of

material that will pass a 4 mm sieve shall be placed beneath floors-on-ground.

(2) Granular material need not be installed under

(a) slabs in garages, carports or accessory *buildings*, or

(b) *buildings of industrial occupancy* where the nature of the process contained therein permits or requires the use of large openings in the *building* envelope even during the winter.

(3) Any *fill* beneath the top portion of coarse clean granular material referred to in Sentence (1) shall be compacted.

(4) Any *fill* placed beneath slabs in garages other than coarse clean granular material as described in Sentence (1) shall be compacted to provide uniform support for the slab.

### 9.16.3. Drainage

#### 9.16.3.1. Control of Water Ingress

(1) Except as provided in Article 9.16.3.2. or where it can be shown to be unnecessary, ingress of water underneath a floor-on-ground shall be prevented by grading or drainage.

#### 9.16.3.2. Hydrostatic Pressure

(1) Where *groundwater* levels may cause hydrostatic pressure beneath a floor-on-ground, the floor-on-ground shall be

(a) a cast in place concrete slab, and

(b) designed to resist such pressures.

#### 9.16.3.3. Floor Drains

(1) When floor drains are required, the floor surface shall be sloped so that no water can accumulate.

### 9.16.4. Concrete

#### 9.16.4.1. Floor Finish

(1) The finished surface of concrete floor slabs shall be trowelled smooth and even.

(2) Dry cement shall not be added to the floor surfaces to absorb surplus water.

#### 9.16.4.2. Compressive Strength

(1) Where dampproofing is not provided the concrete used for floors-on-ground shall have a compressive strength of not less than 25 MPa after 28 days.

(2) Where dampproofing is provided as described in Subsection 9.13.6., the concrete used for floors-on-ground shall have a compressive strength of not less than 15 MPa after 28 days.

#### 9.16.4.3. Topping Course

(1) Where a topping course is provided for a concrete floor slab, it shall consist of 1 part cement to 2.5 parts clean, well graded sand by volume, with a water/cement ratio approximately equal to that of the base slab.

(2) When concrete topping is provided it shall not be less than 20 mm thick.

#### 9.16.4.4. Thickness

(1) Concrete slabs shall be not less than 75 mm thick exclusive of concrete topping.

#### 9.16.4.5. Bond Break

(1) A bond-breaking material shall be placed between the slab and footings or *rock*.

### 9.16.5. Wood

#### 9.16.5.1. Wood Frame Floors

(1) Floors-on-ground constructed of wood shall conform to CAN/CSA-S406, "Construction of Preserved Wood Foundations".

### Section 9.17. Columns

#### 9.17.1. Scope

##### 9.17.1.1. Application

(1) This Section applies to columns used to support carport roofs, and beams carrying loads from not more than 2 wood-frame floors where the length of joists carried by such beams does not exceed 5 m and the *live load* on any floor does not exceed 2.4 kPa.

(2) Columns for applications other than as described in Sentence (1) shall be designed in accordance with Part 4.

#### 9.17.2. General

##### 9.17.2.1. Location

(1) Columns shall be centrally located on a footing conforming to Section 9.15.

##### 9.17.2.2. Fastening

(1) Columns shall be securely fastened to the supported member to prevent lateral movement.

#### 9.17.3. Steel Columns

##### 9.17.3.1. Size and Thickness

(1) Except as permitted in Sentence (2), steel pipe columns shall have an outside diameter of not less than 73 mm and a wall thickness of not less than 4.76 mm.

(2) Columns of sizes other than as specified in Sentence (1) are permitted to be used where the *loadbearing* capacities are shown to be adequate.

##### 9.17.3.2. End Bearing Plates

(1) Except as permitted in Sentence (2), steel columns shall be fitted with not less than 100 mm by 100 mm by 6.35 mm thick steel plates at each end, and where the column supports a wooden beam, the top plate shall extend across the full width of the beam.

(2) The top plate required in Sentence (1) need not be provided where a column supports a steel beam and provision is made for the attachment of the column to the beam.



**9.17.3.3. Paint**

(1) Steel columns shall be treated on the outside surface with not less than 1 coat of rust-inhibitive paint.

**9.17.3.4. Adjustable Steel Columns**

(1) Adjustable steel columns shall conform to CAN/CGSB-7.2-M, "Adjustable Steel Columns".

**9.17.4. Wood Columns****9.17.4.1. Column Sizes**

(1) The width or diameter of a wood column shall be not less than the width of the supported member.

(2) Except as provided in Article 9.35.4.2., columns shall be not less than 184 mm for round columns and 140 mm by 140 mm for rectangular columns, unless calculations are provided to show that lesser sizes are adequate.

**9.17.4.2. Materials**

(1) Wood columns shall be either solid, glue-laminated or built-up.

(2) Built-up columns shall consist of not less than 38 mm thick full-length members

(a) bolted together with not less than 9.52 mm diam bolts spaced not more than 450 mm o.c., or

(b) nailed together with not less than 76 mm nails spaced not more than 300 mm o.c.

(3) Glued-laminated columns shall conform to Section 4.3.

**9.17.4.3. Columns in Contact with Concrete**

(1) Wood columns shall be separated from concrete in contact with the ground by 0.05 mm polyethylene film or Type S roll roofing.

**9.17.4.4. Wood Column Termite Protection**

(1) Where termites are known to exist, exterior wood columns such as porch supports shall be

(a) pressure treated with a chemical that is toxic to such termites, in accordance with Article 9.3.2.9., or

(b) supported on non-cellulosic material extending not less than 150 mm above grade and located not less than 50 mm from the exterior wall of an adjacent *building*.

**9.17.5. Unit Masonry Columns****9.17.5.1. Materials**

(1) Unit masonry columns shall be built of masonry units

(a) conforming to CAN/CSA-A165.1, "Concrete Masonry Units", and

(b) have a compressive strength over the net area of the block of not less than 15 MPa.

**9.17.5.2. Sizes**

(1) Unit masonry columns shall be not less than 290 mm by 290 mm or 240 mm by 380 mm in size.

**9.17.6. Solid Concrete Columns****9.17.6.1. Materials**

(1) Concrete shall conform to Section 9.3.

**9.17.6.2. Sizes**

(1) Concrete columns shall be not less than 200 mm by 200 mm for rectangular columns and 230 mm diam for circular columns.

**Section 9.18. Crawl Spaces****9.18.1. General****9.18.1.1. Application**

(1) In this Section a crawl space refers to an enclosed space between the underside of a floor assembly and the ground cover directly below, with a clearance less than 1 800 mm in height.

**9.18.1.2. Foundations**

(1) *Foundations* enclosing crawl spaces shall conform to Section 9.15.

**9.18.1.3. Heated and Unheated Crawl Spaces**

(1) Crawl spaces shall be considered to be heated where the space

(a) is used as a hot air *plenum*,

(b) contains heating ducts or heating pipes that are not sealed and insulated to minimize heat loss to the space, or

(c) is not separated from heated space in accordance with Section 9.25.

(2) Heating of heated crawl spaces shall conform to Section 9.33.

(3) Insulation, an *air barrier system* and a vapour barrier shall be installed in the walls of heated crawl spaces in accordance with Section 9.25.

**9.18.2. Access****9.18.2.1. Access Openings**

(1) An access opening of not less than 500 mm by 700 mm shall be provided to each crawl space where the crawl space serves a single *dwelling unit*, and not less than 550 mm by 900 mm for other crawl spaces.

(2) Access openings shall be fitted with a door or hatch, except when the crawl space is heated and the access opening into the crawl space is from the adjacent heated space.

**9.18.3. Ventilation****9.18.3.1. Ventilation of Unheated Crawl Spaces**

(1) Unheated crawl spaces shall be ventilated by natural or mechanical means.

(2) Where an unheated crawl space is ventilated by natural means, ventilation shall be provided to the outside air by not less than 0.1 m<sup>2</sup> of unobstructed vent area for every 50 m<sup>2</sup> of *floor area*.

## (3) Vents shall be

- (a) uniformly distributed on opposite sides of the *building*, and
- (b) designed to prevent the entry of snow, rain and insects.

**9.18.3.2. Ventilation of Heated Crawl Spaces**

(1) Heated crawl spaces shall be ventilated in accordance with Section 9.32.

**9.18.4. Clearance****9.18.4.1. Access Way to Services**

(1) Where equipment requiring service such as plumbing cleanouts, traps and burners is located in crawl spaces, an access way with a height and width of not less than 600 mm shall be provided from the access door to the equipment and for a distance of 900 mm on the side or sides of the equipment to be serviced.

**9.18.5. Drainage****9.18.5.1. Drainage**

(1) Except where it can be shown to be unnecessary, the ingress of water into a crawl space shall be controlled by grading or drainage.

(2) Drainage of *foundation* walls shall conform to Article 9.14.2.1.

(3) Drainage of the ground cover or floor-on-ground in the crawl space shall conform to Article 9.16.3.1.

(4) Drains shall conform to Section 9.14.

**9.18.6. Ground Cover****9.18.6.1. Ground Cover in Unheated Crawl Spaces**

(1) Where a crawl space is unheated, a ground cover shall be provided consisting of not less than

- (a) 50 mm of asphalt paving material,
- (b) 100 mm of 15 MPa Portland cement concrete,
- (c) Type S roll roofing, or
- (d) 0.10 mm polyethylene.

(2) Joints in sheet-type ground cover required in Sentence (1) shall be lapped not less than 100 mm and weighted down.

**9.18.6.2. Ground Cover in Heated Crawl Spaces**

(1) Where a crawl space is heated, a ground cover consisting of not less than 0.15 mm polyethylene sheet conforming to CAN/CGSB-51.34-M, "Vapour Barrier, Polyethylene Sheet, for Use in Building Construction" shall be provided.

(2) Joints in the ground cover required in Sentence (1) shall be lapped not less than 300 mm, and

- (a) sealed and weighted down, or
- (b) covered with a concrete skim coat not less than 50 mm thick.

(3) The perimeter of the ground cover required in Sentence (1) shall be sealed to the *foundation* wall.

**9.18.7. Fire Protection****9.18.7.1. Crawl Spaces as Warm Air Plenums**

(1) Only Crawl spaces under 1-storey portions of *dwelling units* shall be used as warm-air *plenums*.

(2) Enclosing material in crawl spaces described in Sentence (1) including insulation shall have a surface *flame-spread rating* not greater than 150.

(3) *Combustible* ground cover used as enclosing material in Sentence (2) shall be covered with *noncombustible* material.

**Section 9.19. Roof Spaces****9.19.1. Venting****9.19.1.1. Required Venting**

(1) Except where it can be shown to be unnecessary, where insulation is installed between a ceiling and the underside of the roof sheathing, a space shall be provided between the insulation and the sheathing, and vents shall be installed to permit the movement of air from the space to the exterior.

**9.19.1.2. Vent Requirements**

(1) Except as provided in Sentence (2), the unobstructed vent area shall be not less than 1/300 of the insulated ceiling area.

(2) Where the roof slope is less than 1 in 6 or in roofs that are constructed with roof joists, the unobstructed vent area shall be not less than 1/150 of the insulated ceiling area.

(3) Required vents are permitted to be roof type, eave type, gable-end type or any combination thereof, and shall be distributed

- (a) uniformly on opposite sides of the *building*,
- (b) with not less than 25% of the required openings located at the top of the space, and
- (c) with not less than 25% of the required openings located at the bottom of the space.

(4) Except where each roof joist space referred to in Sentence (2) is separately vented, roof joist spaces shall be interconnected by installing purlins not less than 38 mm by 38 mm on the top of the roof joists.

(5) Vents shall be designed to prevent the entry of rain, snow and insects.

(6) The unobstructed vent area required in Sentences (1) and (2) shall be determined in conformance with CAN3-A93, "Natural Airflow Ventilators for Buildings".

**9.19.1.3. Clearances**

(1) Where venting is provided to a roof joist space, not less than 63 mm of space shall be provided between the top of the insulation and the underside of the roof sheathing.

(2) Ceiling insulation shall be installed in a manner which will not restrict a free flow of air through roof vents or through any portion of the *attic* or *roof space*.

**9.19.1.4. Mansard or Gambrel Roof**

(1) The lower portion of a mansard or gambrel style roof need not be ventilated.

(2) The upper portion of roofs described in Sentence (1) shall be ventilated in conformance with the requirements in Articles 9.19.1.1. to 9.19.1.3.

**9.19.2. Access****9.19.2.1. Access**

(1) Every *attic or roof space* shall be provided with an access hatch where the *attic or roof space* measures

- (a) not less than 10 m<sup>2</sup>, in area,
- (b) not less than 1 000 mm in length or width, and
- (c) not less than 600 mm in height over at least the area described in Clauses (a) and (b).

(2) The hatch required in Sentence (1) shall be not less than 550 mm by 900 mm except that, where the hatch serves not more than one *dwelling unit*, the hatch is permitted to be reduced to 500 mm by 700 mm.

(3) Hatchways to *attic or roof spaces* shall be fitted with doors or covers.

**Section 9.20. Above-Grade Masonry****9.20.1. Scope****9.20.1.1. Application**

(1) Except as provided in Article 9.20.1.2., this Section applies to unreinforced masonry and masonry veneer in which the wall height above the *foundation* wall does not exceed 11 m, and in which the roof or floor system above the *first storey* is not of concrete construction.

(2) For *buildings* other than described in Sentence (1), or where the masonry is designed on the basis of design loads and allowable stresses, Subsection 4.3.2. shall apply.

**9.20.1.2. Earthquake Reinforcement**

(1) In velocity- or acceleration-related seismic zones, of 4 or greater, *loadbearing* elements of masonry *buildings* more than 1 *storey* in *building height* shall be reinforced with at least the minimum amount of reinforcement as required in Subsection 9.20.15.

(2) In velocity- or acceleration-related seismic zones, of 2 and 3, *loadbearing* elements of masonry *buildings* 3 *storeys* in *building height* shall be reinforced with at least the minimum amount of reinforcement as required in Subsection 9.20.15.

**9.20.2. Masonry Units****9.20.2.1. Masonry Unit Standards**

(1) Masonry units shall comply with

- (a) ASTM C 126, "Ceramic Glazed Structural Clay Facing Tile, Facing Brick, and Solid Masonry Units",

(b) ASTM C 212, "Structural Clay Facing Tile",

(c) CAN/CSA-A82.1, "Burned Clay Brick (Solid Masonry Units Made from Clay or Shale)",

(d) CSA A82.3-M, "Calcium Silicate (Sand-Lime) Building Brick",

(e) CSA A82.4-M, "Structural Clay Load-Bearing Wall Tile",

(f) CSA A82.5-M, "Structural Clay Non-Load-Bearing Tile",

(g) CAN3 A82.8-M, "Hollow Clay Brick",

(h) CAN/CSA-A165.1, "Concrete Masonry Units",

(i) CAN/CSA-A165.2, "Concrete Brick Masonry Units",

(j) CAN/CSA-A165.3, "Prefaced Concrete Masonry Units", or

(k) CAN3-A165.4-M, "Autoclaved Cellular Units".

**9.20.2.2. Used Brick**

(1) Used bricks shall be free of old mortar, soot or other surface coating and shall conform to Article 9.20.2.1.

**9.20.2.3. Glass Blocks**

(1) Glass blocks shall not be used as *loadbearing* units or in the construction of fireplaces or *chimneys*.

**9.20.2.4. Cellular Concrete**

(1) Masonry made with cellular concrete shall not be used in contact with the *soil* or exposed to the weather.

**9.20.2.5. Stone**

(1) Stone shall be sound and durable.

**9.20.2.6. Concrete Units Exposed to the Weather**

(1) Concrete units exposed to the weather shall have weight and water absorption characteristics conforming to Classes A, B or C, described in CAN/CSA-A165.1, "Concrete Masonry Units".

(2) Where cellular concrete blocks are used in situations described in Sentence (1), allowance shall be made in the design for the shrinkage characteristics of the units to be used.

**9.20.2.7. Compressive Strength**

(1) The compressive strength of masonry units shall conform to Table 9.20.2.7.

**Table 9.20.2.7.****Compressive Strength of Concrete Masonry Units**

Forming Part of Sentence 9.20.2.7.(1)

Type of Unit	Minimum Compressive Strength Over Net Area, MPa	
	Exposed to Weather	Not Exposed to Weather
Solid or hollow concrete units	15	10
Solid <i>loadbearing</i> cellular units	Not permitted	5
Solid non- <i>loadbearing</i> cellular units	Not permitted	2
Column 1	2	3



**9.20.3. Mortar**

(3) Lime used in mortar shall be hydrated.

**9.20.3.1. Mortar Materials**

(1) Cementitious materials and aggregates for mortar shall comply with

- (a) ASTM C 5, "Quicklime for Structural Purposes",
- (b) ASTM C 207, "Hydrated Lime for Masonry Purposes",
- (c) CAN/CSA-A5, "Portland Cement",
- (d) CAN/CSA-A8, "Masonry Cement", or
- (e) CSA A82.56-M, "Aggregate for Masonry Mortar".

(2) Water and aggregate shall be clean and free of significant amounts of deleterious materials.

(4) If lime putty is used in mortar, it shall be made by slaking quicklime in water for not less than 24 h or soaking hydrated lime in water for not less than 12 h.

**9.20.3.2. Mortar Mixes**

(1) Except as provided in Sentences (3) and (4), mortar mixes shall conform to Table 9.20.3.2.

(2) Mortar containing portland cement shall not be used later than 2.5 h after mixing.

(3) Mortar for sand-lime brick and concrete brick is permitted to consist of 1 part masonry cement to not less than 3 or not more than 3.5 parts of aggregate by volume in addition to those mixes permitted in Table 9.20.3.2.

**Table 9.20.3.2.****Mortar Mix Proportions (By Volume)**

Forming Part of Sentence 9.20.3.2.(1)

Permissible Use of Mortar	Portland Cement	Masonry Cement	Lime	Aggregate
All locations but not for use with sand-lime or concrete brick	0.5 to 1 1	1 —	— 0.25 to 0.5	Not less than 2.25 and not more than 3 times the sum of the volumes of the cement and the lime
All locations except <i>foundation</i> walls and piers, but not for use with sand-lime or concrete brick	— 1	1 —	— 0.5 to 1.25	
All locations except <i>loadbearing</i> walls of hollow units, parapet walls and <i>chimneys</i>	1	—	1.25 to 2.5	
All non- <i>loadbearing</i> interior walls and all <i>loadbearing</i> walls of solid units, except <i>foundation</i> walls, parapet walls and <i>chimneys</i>	1 —	— —	2.25 to 4 1	
Column 1	2	3	4	5

(4) Mortar for glass block shall consist of 1 part portland cement and 1 part hydrated lime to not more than 4 parts aggregate by volume.

*foundations* of wood frame constructed in conformance with Sentence 9.15.1.3.(3).

**9.20.4. Mortar Joints****9.20.4.1. Thickness**

(1) Except as provided in Sentence (2), mortar joint thickness for burned clay brick and concrete masonry units shall be 10 mm.

(2) Permitted tolerances in head and bed joints shall be -5 mm to +10 mm.

(2) Every masonry wall shall be at least as thick as the wall it supports, except as otherwise permitted in Article 9.20.12.2.

**9.20.4.2. Solid Masonry Units**

(1) Solid masonry units shall be laid with full head and bed joints.

**9.20.5.2. Lintels or Arches**

(1) Masonry over openings shall be supported by steel, reinforced concrete lintels or masonry arches designed to support the imposed loads.

**9.20.4.3. Hollow Masonry Units**

(1) Hollow masonry units shall be laid with mortar applied to head and bed joints of both inner and outer face shells.

(2) Except as permitted in Sentence (2), steel angle lintels supporting masonry above openings shall conform to Table 9.20.5.2.A.

(3) Steel angle lintels supporting masonry veneer above openings shall conform to Table 9.20.5.2.B.

**9.20.5. Masonry Support**

(4) Steel lintels described in Sentences (2) and (3) shall have even and level bearing and shall have not less than 150 mm length of bearing at end supports.

**9.20.5.1. Masonry Support**

(1) All masonry shall be supported on masonry, concrete or steel, except that masonry veneer walls are permitted to be supported on

(5) Steel angle lintels supporting masonry shall be prime painted or otherwise protected from corrosion.

Table 9.20.5.2.A.

Loose Steel Lintels for Masonry—No. & Size of Angles Required<sup>(7)</sup>

Forming Part of Sentence 9.20.5.2.(2)

Clear Span <sup>(1)(3)</sup>	Exterior Angles		Wall Thickness, mm	Interior Angles						
	for Brick	for Stone		Maximum Floor Loads per Metre of Span in Newtons <sup>(2)(4)(5)</sup>						
	100 mm	100 mm + 50 mm stone facing								
	No Floor Load			None	3 650	7 300	10 950	14 600	18 250	21 900
1 200 mm or less	L-90 x 90 x 6	L-125 x 90 x 8	203	L-90 x 90 x 6	L-90 x 90 x 6	L-90 x 90 x 8	L-100 x 90 x 8	L-125 x 90 x 8	L-125 x 90 x 10	L-125 x 90 x 13
			305	2Ls-90 x 90 x 8	2Ls-90 x 90 x 8	2Ls-90 x 90 x 8	2Ls-90 x 90 x 8	2Ls-90 x 90 x 8	2Ls-100 x 90 x 8	2Ls-100 x 90 x 8
1 500 mm	L-90 x 90 x 8	L-125 x 90 x 8	203	L-90 x 90 x 8	L-90 x 90 x 8	L-125 x 90 x 8	L-125 x 90 x 10	L-125 x 90 x 13	L-150 x 90 x 10	— — —
			305	2Ls-90 x 90 x 8	2Ls-90 x 90 x 8	2Ls-90 x 90 x 8	2Ls-125 x 90 x 8	2Ls-125 x 90 x 8	2Ls-125 x 90 x 8	2Ls-125 x 90 x 10
1 800 mm	L-100 x 90 x 8	L-125 x 125 x 8	203	L-100 x 90 x 8	L-125 x 90 x 8	L-125 x 90 x 8	L-150 x 100 x 10			
			305	2Ls-100 x 90 x 8	2Ls-100 x 90 x 8	2Ls-125 x 90 x 8	2Ls-125 x 90 x 8	2Ls-125 x 90 x 10	2Ls-150 x 100 x 10	2Ls-150 x 100 x 10
2 100 mm	L-100 x 90 x 8	L-125 x 125 x 8	203	L-100 x 90 x 8	L-125 x 90 x 10	L-150 x 100 x 10				
			305	2Ls-100 x 90 x 8	2Ls-125 x 90 x 10	2Ls-125 x 90 x 10	2Ls-150 x 100 x 10	2Ls-150 x 100 x 10		
2 400 mm	L-125 x 90 x 8	L-125 x 125 x 8	203	L-125 x 90 x 8	L-150 x 100 x 10					
			305	2Ls-125 x 90 x 8	2Ls-125 x 90 x 13	2Ls-150 x 100 x 10				
2 700 mm	L-125 x 90 x 10	L-125 x 125 x 10	203	L-125 x 90 x 10						
			305	2Ls-125 x 150 x 10	2Ls-150 x 100 x 10					
Column 1	2	3	4	5	6	7	8	9	10	11

3 000 mm	L-150 x 100 x 10	L-125 x 125 x 13	203	L-150 x 100 x 10						
			305	2Ls-150 x 100 x 10						
Column 1	2	3	4	5	6	7	8	9	10	11

**Notes to Table 9.20.5.2.**

- (1) See Sentence 9.20.5.2.(a).  
 (2) Omit floor load in lintel when distance to bottom of floor construction is greater than width of opening.  
 (3) Interior and exterior angles in 200 mm walls and interior angles in 300 mm walls are bolted together when clear span is over 1 800 mm.  
 (4) When masonry lighter than brick is used over interior angles floor load may be increased by the difference in weight per square metre times the width of the opening. Not generally available.  
 (5) Interior angles have been designed for floor load plus brick masonry of height equal to width of opening.  
 (6)  $f_s = 138 \text{ MPa}$ .  
 Deflection maximum =  $1/700$  span.  
 (7) The figures in the Table indicating wall thickness and angle cross-section are in mm.

**Table 9.20.5.2.B.**

**Maximum Allowable Spans for Steel Lintels  
Supporting Masonry Veneer, m**

Forming Part of Sentence 9.20.5.2.(3)

Minimum Angle Size, mm			70 mm Brick	90 mm Brick	100 mm Stone
Vertical Leg	Horizontal Leg	Thickness			
90	75	6	2.55	—	—
90	90	6	2.59	2.47	2.30
100	90	6	2.79	2.66	2.48
125	90	8	3.47	3.31	3.08
125	90	10	3.64	3.48	3.24
Column 1	2	3	4	5	6

**9.20.6. Thickness and Height****9.20.6.1. Thickness of Exterior Walls**

(1) Masonry exterior walls, other than cavity walls, in 1 storey buildings and the top storeys of 2- and 3-storey buildings shall be not less than 140 mm thick provided the walls are not more than 2 800 mm high at the eaves and 4.6 m high at the peaks of gable ends.

(2) The exterior walls of the bottom storeys of 2 storey buildings, and exterior walls of the bottom 2 storeys of 3 storey buildings shall be not less than 190 mm thick.

(3) In exterior walls composed of more than one wythe, each wythe shall be not less than 90 mm thick.

**9.20.6.2. Cavity Walls**

(1) Cavity walls shall be made with not less than 90 mm wide units if the joints are raked and not less than 75 mm wide units if the joints are not raked.

(2) The width of a cavity in a cavity wall shall be not less than 50 mm nor greater than 150 mm.

(3) The minimum thickness of cavity walls above the supporting base shall be 230 mm for the top 7.6 m and 330 mm for the remaining portion, except that where 75 mm wide units are used, the wall height above the top of the foundation wall shall not exceed 6 m.

**9.20.6.3. Thickness of Interior Walls**

(1) The thickness of loadbearing interior walls shall be determined on the basis of the maximum lateral support spacing as provided in Sentences 9.20.10.1.(2) and (3).

(2) The thickness of interior non-loadbearing walls shall be

(a) determined on the basis of the maximum lateral support spacing as provided in Sentences 9.20.10.1.(2) and (3), and

(b) in any case not less than 65 mm.

**9.20.6.4. Masonry Veneer Walls**

(1) Except for masonry veneer individually supported by the back-up material, masonry veneer shall be of solid units not less than 70 mm thick.

(2) Veneer described in Sentence (1) over wood-frame walls shall have not less than a 25 mm air space behind the veneer.

(3) Masonry veneer less than 90 mm thick shall have unraked joints.

(4) Masonry veneer individually supported by the back-up material shall conform to Subsection 4.3.2.

**9.20.6.5. Parapet Walls**

(1) The height of parapet walls above the adjacent roof surface shall be not more than 3 times the parapet wall thickness.

(2) Parapet walls shall be solid from the top of the parapet to not less than 300 mm below the adjacent roof level.

**9.20.6.6. Stone or Concrete Facings**

(1) Limestone slab facings and precast concrete panel facings shall conform to Subsection 4.3.2.

**9.20.7. Chases and Recesses****9.20.7.1. Maximum Dimensions**

(1) Except as permitted in Sentence 9.20.7.2.(2) and Article 9.20.7.4., the depth of any chase or recess shall not exceed one third the thickness of the wall, and the width of the chase or recess shall not exceed 500 mm.

**9.20.7.2. Minimum Wall Thickness**

(1) Except as permitted in Sentence (2) and Article 9.20.7.4., no chase or recess shall be constructed in any wall 190 mm or less in thickness.



(2) Recesses may be constructed in 190 mm walls provided they do not exceed 100 mm in depth, 750 mm in height and 500 mm in width.

#### 9.20.7.3. Separation of Chases and Recesses

(1) Chases and recesses shall be not less than

- (a) 4 times the wall thickness apart measured from centre to centre, and
- (b) not less than 600 mm away from any pilaster, cross wall, buttress or other vertical element providing required lateral support for the wall.

#### 9.20.7.4. Non-Conforming Chases or Recesses

(1) Chases or recesses that do not conform to the limits specified in Articles 9.20.7.1. to 9.20.7.3. shall be considered as openings, and any masonry supported above such a chase or recess shall be supported by a lintel or arch as provided in Article 9.20.5.2.

#### 9.20.7.5. Chases or Recesses Cut into Walls

(1) Chases or recesses shall not be cut into walls made with hollow units after the masonry units are in place.

### 9.20.8. Support of Loads

#### 9.20.8.1. Capping of Hollow Masonry Walls

(1) Except as permitted in Sentence (2), *loadbearing* walls of hollow masonry units supporting roof or floor framing members shall be capped with not less than 50 mm of solid masonry or have the top course filled with concrete.

(2) Capping required in Sentence (1) may be omitted where the roof framing is supported on a wood plate not less than 38 mm by 89 mm.

#### 9.20.8.2. Cavity Walls Supporting Framing Members

(1) Floor joists supported on cavity walls shall be supported on solid units not less than 57 mm high.

(2) Floor joists described in Sentence (1) shall not project into the cavity.

(3) Roof and ceiling framing members bearing on cavity walls shall be supported on

- (a) not less than 57 mm of solid masonry, bridging the full thickness of the wall, or
- (b) a wood plate not less than 38 mm thick, bearing not less than 50 mm on each wythe.

#### 9.20.8.3. Bearing of Beams and Joists

(1) The bearing area under beams and joists shall be sufficient to carry the supported load.

(2) In no case shall the minimum length of end bearing of beams supported on masonry be less than 90 mm.

(3) The length of end bearing of floor, roof or ceiling joists supported on masonry shall be not less than 40 mm.

#### 9.20.8.4. Support of Beams and Columns

(1) Beams and columns supported on masonry walls shall be supported on pilasters where the thickness of the masonry wall or wythe is less than 190 mm.

(2) Not less than 190 mm depth of solid masonry or concrete shall be provided under the beam or column referred to in Sentence (1).

(3) Pilasters required in Sentence (1) shall be bonded or tied to masonry walls.

(4) Concrete pilasters required in Sentence (1) shall be not less than 50 mm by 300 mm.

(5) Unit masonry pilasters required in Sentence (1) shall be not less than 100 mm by 290 mm.

#### 9.20.8.5. Distance to Edge of Supporting Members

(1) Masonry veneer of hollow units resting on bearing support shall not project more than

- (a) 30 mm beyond the supporting base where the veneer is not less than 90 mm thick, and
- (b) 12 mm beyond the supporting base where the veneer is less than 90 mm thick.

(2) Masonry veneer of solid units resting on bearing support shall not project more than one third of the width of the veneer.

(3) Where the masonry veneer described in Sentence (2) is rough stone masonry

- (a) the projection shall be measured as the average projection of the units, and
- (b) the width of the veneer shall be measured as the average width of the veneer.

### 9.20.9. Bonding and Tying

#### 9.20.9.1. Joints to be Offset or Reinforced

(1) Vertical joints in adjacent masonry courses shall be offset unless each wythe of masonry is reinforced with the equivalent of not less than 2 corrosion-resistant steel bars of 3.76 mm diam placed in the horizontal joints at vertical intervals not exceeding 460 mm.

(2) Where joints in the reinforcing referred to in Sentence (1) occur, the bars shall be lapped not less than 150 mm.

#### 9.20.9.2. Bonding or Tying of Other than Masonry Veneer

(1) Masonry walls, other than masonry veneer walls, that consist of 2 or more wythes shall have the wythes bonded or tied together with masonry bonding units as described in Article 9.20.9.3. or with metal ties as described in Articles 9.20.9.4.

#### 9.20.9.3. Bonding

(1) Where wythes are bonded together with masonry units, the bonding units shall comprise not less than 4 per cent of the wall surface area.

(2) Bonding units described in Sentence (1) shall be spaced not more than 600 mm vertically and horizontally in the case of brick masonry and 900 mm o.c. in the case of block or tile.

(3) Units described in Sentence (1) shall extend not less than 90 mm into adjacent wythes.

**9.20.9.4. Tying**

(1) Where 2 or more wythes are tied together with metal ties of the individual rod type, the ties shall conform to the requirements in Sentences (3) to (6).

(2) Other ties may be used where it can be shown that such ties provide walls that are at least as strong and as durable as those made with the individual rod type.

(3) Metal ties of the individual rod type shall

- (a) be corrosion-resistant,
  - (b) have a minimum cross-sectional area of not less than 17.8 mm<sup>2</sup>, and
  - (c) have not less than a 50 mm portion bent at right angles at each end.
- (4) Metal ties of the individual rod type shall
- (a) extend from within 25 mm of the outer face of the wall to within 25 mm of the inner face of the wall,
  - (b) be completely embedded in mortar except for the portion exposed in cavity walls, and
  - (c) be staggered from course to course.

(5) Where 2 or more wythes in walls other than cavity walls and masonry veneer/masonry back-up walls are tied together with metal ties of the individual rod type, the space between wythes shall be completely filled with mortar.

(6) Ties described in Sentence (5) shall be

- (a) located within 300 mm of openings and spaced not more than 900 mm apart around openings, and
- (b) spaced not more than 900 mm apart horizontally and 460 mm apart vertically at other locations.

(7) Except as required in Sentences (8) and (9), where the inner and outer wythes of cavity walls are tied with individual wire ties, the ties shall be spaced not more than 900 mm apart horizontally and 400 mm apart vertically.

(8) Within 100 mm of the bottom of each floor or roof assembly where the cavity extends below the assemblies, the ties described in Sentence (7) shall be spaced not more than 600 mm apart horizontally.

(9) Within 300 mm of any openings, the ties described in Sentence (7) shall be spaced not more than 900 mm apart.

**9.20.9.5. Ties for Masonry Veneer**

(1) Masonry veneer 70 mm or more in thickness and resting on a bearing support shall be tied to masonry back-up or to wood framing members with straps that are

- (a) corrosion-resistant,
- (b) not less than 0.76 mm thick,
- (c) not less than 22 mm wide,
- (d) shaped to provide a key with the mortar, and

(e) spaced in accordance with Table 9.20.9.5.

**Table 9.20.9.5.****Veneer Tie Spacing**

Forming Part of Sentence 9.20.9.5.(1)

Maximum Vertical Spacing, mm	Maximum Horizontal Spacing, mm
400	800
500	600
600	400
Column 1	2

(2) The straps described in Sentence (1) which are fastened to the wood framing members shall be

- (a) bent at a right angle within 6 mm from the fastener, and
- (b) fastened with corrosion resistant 3.18 mm diam. screws, or spiral nails having a wood penetration of not less than 30 mm.

(3) Masonry veneer individually supported by masonry or wood-frame back-up shall be secured to the back-up in conformance with Subsection 4.3.2.

(4) The straps described in Sentence (1) may be installed against one of the sheathings listed in Table 9.23.16.2.A. provided that

- (a) the tie is in contact with the exterior surface of the sheathing, and
- (b) the sheathing beneath the tie is not compressed.

**9.20.9.6. Reinforcing for Glass Block**

(1) Glass block shall have horizontal joint reinforcement of 2 corrosion-resistant bars of not less than 3.76 mm or expanded metal strips not less than 75 mm wide

- (a) spaced at vertical intervals of not more than 600 mm for units 190 mm or less in height, and
- (b) installed in every horizontal joint for units higher than 190 mm.

(2) Reinforcement required in Sentence (1) shall be lapped not less than 150 mm.

**9.20.10. Lateral Support****9.20.10.1. Lateral Support Required**

(1) Masonry walls shall be laterally supported by floor or roof construction or by intersecting masonry walls or buttresses.

(2) The maximum spacing of supports required in Sentence (1) shall be not less than

- (a) 20 times the wall thickness for all *loadbearing* walls and exterior *non-loadbearing* walls, and
- (b) 36 times the wall thickness for interior *non-loadbearing* walls.

(3) In applying Sentence (2), the thickness of cavity walls shall be taken as the greater of

- (a) two-thirds of the sum of the thicknesses of the wythes, or
- (b) the thickness of the thicker wythe.

(4) Floor and roof constructions providing lateral support for walls as required in Sentence (1) shall be constructed to transfer lateral loads to walls or buttresses approximately at right angles to the laterally supported walls.

#### 9.20.11. Anchorage of Roofs, Floors and Intersecting Walls

##### 9.20.11.1. Anchorage of Floor or Roof Assemblies

(1) Where required to receive lateral support, masonry walls shall be anchored to each floor or roof assembly at maximum intervals of 2 m, except that anchorage of floor joists not more than 1 m above grade may be omitted.

(2) Anchors required in Sentence (1) shall be corrosion-resistant and be not less than the equivalent of 40 mm by 4.76 mm thick steel straps.

(3) Anchors required in Sentence (1) shall be shaped to provide a mechanical key with the masonry and shall be securely fastened to the horizontal support to develop the full strength of the tie.

(4) When joists are parallel to the wall, anchors required in Sentence (1) shall extend across not less than 3 joists.

##### 9.20.11.2. Bonding and Tying of Intersecting Walls

(1) Where required to provide lateral support, intersecting walls shall be bonded or tied together.

(2) Where bonding is used to satisfy the requirements of Sentence (1), 50% of the adjacent masonry units in the intersecting wall, distributed uniformly over the height of the intersection, shall be imbedded in the laterally supported wall.

(3) Where tying is used to satisfy the requirements of Sentence (1), the ties shall be

- (a) corrosion-resistant metal,
- (b) equivalent to not less than 4.76 mm by 40 mm steel strapping,
- (c) spaced not more than 800 mm o.c. vertically, and
- (d) shaped at both ends to provide sufficient mechanical key to develop the strength of the ties.

##### 9.20.11.3. Wood Frame Walls Intersecting Masonry Walls

(1) Wood-frame walls shall be tied to intersecting masonry walls with not less than 4.76 mm diam corrosion-resistant steel rods spaced not more than 900 mm o.c. vertically.

(2) Ties required in Sentence (1) shall be anchored to the wood framing at one end and shaped to provide a mechanical key at the other end to develop the strength of the tie.

##### 9.20.11.4. Wood Frame Roof Systems

(1) Except as permitted in Sentence (2), roof systems of wood-frame construction shall be tied to exterior walls by not less than 12.7 mm diam anchor bolts

- (a) spaced not more than 2 400 mm apart,
- (b) embedded not less than 90 mm into the masonry, and

(c) fastened to a rafter plate of not less than 38 mm thick lumber.

(2) The roof system described in Sentence (1) is permitted to be anchored by nailing the wall furring strips to the side of the rafter plate.

#### 9.20.11.5. Cornices, Sills and Trim

(1) Cornices, sills or other trim of masonry material which project beyond the wall face shall have not less than 65% of their mass, but not less than 90 mm, within the wall or shall be adequately anchored to the wall with corrosion-resistant anchors.

##### 9.20.11.6. Piers

(1) Where anchor bolts are to be placed in the top of a masonry pier, the pier shall conform to the requirements of Sentence 9.15.2.4.(4) and shall be capped with concrete or reinforced masonry not less than 200 mm thick.

#### 9.20.12. Corbelling

##### 9.20.12.1. Corbelling

(1) All corbelling shall consist of solid units.

(2) The units referred to in Sentence (1) shall be corbelled so that the horizontal projection of any unit does not exceed 25 mm and the total projection does not exceed one-third of the total wall thickness.

##### 9.20.12.2. Corbelling for Cavity Walls

(1) Cavity walls of greater thickness than the *foundation* wall on which they rest shall not be corbelled but may project 25 mm over the outer face of the *foundation* wall disregarding parging.

(2) Where the *foundation* wall referred to in Sentence (1) is unit masonry, it is permitted to be corbelled to meet flush with the inner face of a cavity wall provided

- (a) the projection of each course does not exceed half the height or one-third the width of the corbelled unit, and
- (b) the total corbel does not exceed one-third of the *foundation* wall thickness.

##### 9.20.12.3. Corbelling for Masonry Veneer

(1) Masonry veneer resting on a bearing support shall not project more than 25 mm beyond the supporting base where the veneer is at least 90 mm thick, and 12 mm beyond the supporting base where the veneer is less than 90 mm thick.

(2) In the case of rough stone veneer, the projection, measured as the average projection of the stone units, shall not exceed one-third the bed width beyond the supporting base.

#### 9.20.13. Control of Rain Water Penetration

##### 9.20.13.1. Materials for Flashing

(1) Material used for flashing shall conform to Table 9.20.13.1.

(2) Aluminum flashing in contact with masonry or concrete shall be effectively coated or separated from the masonry or concrete by an impervious membrane.



**Table 9.20.13.1.****Flashing Material**

Forming Part of Sentence 9.20.13.1.(1)

Material	Minimum Thickness, mm	
	Exposed Flashing	Concealed Flashing
Aluminum	0.48	—
Copper	0.36	0.36
Copper or aluminum laminated to felt or kraft paper	—	0.05
Hot dipped or galvanized steel	0.33	0.33
Lead sheet	1.73	1.73
Polyethylene	—	0.50
Roll roofing, Type S	—	standard
Zinc	0.46	0.46
Column 1	2	3

**9.20.13.2. Fastening of Flashing**

(1) Fastening devices for flashing shall be corrosion-resistant and where metal flashing is used, shall be compatible with the flashing with respect to galvanic action.

**9.20.13.3. Location of Flashing**

(1) Flashing shall be installed in masonry and masonry veneer walls

- (a) beneath jointed masonry window sills,
- (b) over the back and top of parapet walls,
- (c) over the heads of glass block panels, beneath weep holes, and
- (d) over the heads of window and door openings in exterior walls when the vertical distance between the top of a window or door frame and the bottom edge of the eave exceeds one-quarter of the horizontal eave overhang.

(2) Throughwall flashing shall be provided in a masonry veneer wall such that any moisture which accumulates in the air space will be directed to the exterior of the *building*.

**9.20.13.4. Extension of Flashing**

(1) A flashing may be deleted when the masonry at the sill of a wall opening or the top of a wall is protected by an impervious non-jointed masonry coping which conforms to Article 9.20.13.12.

(2) When installed beneath jointed masonry window sills and jointed masonry copings or over the heads of openings, flashing shall extend from the front edge of the masonry up behind the sill or lintel.

**9.20.13.5. Flashing for Weep Holes in Masonry Veneer/Masonry Walls**

(1) Flashing beneath weep holes in cavity walls and masonry veneer/masonry back-up walls shall

- (a) be bedded not less than 25 mm in the inside wythe,
- (b) extend to not less than 5 mm beyond the outer face of the *building* element below the flashing, and

(c) be installed with a nominally horizontal slope toward the outside wythe.

**9.20.13.6. Flashing for Weep Holes in Veneer**

(1) Flashing beneath weep holes in masonry veneer over masonry back-up walls shall conform to the flashing requirements for cavity walls and masonry veneer/masonry back-up walls in Article 9.20.13.5.

(2) Flashing beneath weep holes in masonry veneer over wood-frame walls shall be installed so that it extends from a point not less than 5 mm beyond the outer face of the *building* element below the flashing to a point 150 mm up the wood frame wall.

(3) Where the frame wall is sheathed with a sheathing membrane, a non-wood-based rigid exterior insulating sheathing or a semi-rigid insulating sheathing with an integral sheathing membrane, the flashing shall be installed behind the sheathing membrane or insulating sheathing.

(4) Flashing described in Sentence (2) is permitted to conform to the requirements for concealed flashing in Table 9.20.13.1.

**9.20.13.7. Flashing Joints**

(1) Joints in flashing shall be made watertight.

**9.20.13.8. Required Weep Holes**

(1) Weep holes spaced not more than 800 mm apart shall be provided at the bottom of

- (a) cavities in cavity walls, and
- (b) cavities or air spaces in masonry veneer walls.

(2) The cavities or air spaces described in Sentence (1) shall include those above lintels over window and door openings required to be flashed in conformance with Article 9.20.13.4.

(3) The weep holes required in Sentence (1) shall be in a location such that any water that collects in the cavity or space will be directed to the exterior of the *building*.

**9.20.13.9. Protection of Interior Finish**

(1) Except as provided in Sentence (3), where the interior finish of the exterior walls of a *building* is a type which may be damaged by moisture, exterior masonry walls, other than cavity walls or walls that are protected for their full height by a roof of a carport or porch, shall be

- (a) parged on the interior surface,
- (b) covered with No. 15 breather-type asphalt-saturated paper conforming to CAN2-51.32, "Sheathing, Membrane, Breather Type", and
- (c) the paper referred to in Clause (b) shall be lapped not less than 100 mm at the joints

(2) In situations described in Sentence (1), flashing shall be provided where water will accumulate, to lead it to the exterior.

(3) Where the insulation effectively limits the passage of water vapour and is applied by a waterproof adhesive or by mortar directly to the masonry, the requirements for sheathing paper do not apply.

**9.20.13.10. Mortar Droppings**

(1) Cavity walls shall be constructed so that mortar droppings are prevented from forming a bridge to allow the passage of rain water across the cavity.

**9.20.13.11. Caulking at Door and Window Frames**

(1) The junction of door and window frames with masonry shall be caulked in conformance with Subsection 9.27.4.

**9.20.13.12. Drips Beneath Window Sills**

(1) Except for wall openings located less than 150 mm above ground level, where a concealed flashing is not installed beneath window and door sills, such sills shall be provided with an outward slope and a drip located not less than 25 mm from the wall surface.

**9.20.14. Protection during Work****9.20.14.1. Laying Temperature of Mortar and Masonry**

(1) Mortar and masonry shall be maintained at a temperature not below 5°C during installation and for not less than 48 h after installation.

(2) No frozen material shall be used in the mortar mix.

**9.20.14.2. Protection from Weather**

(1) The top surface of uncompleted masonry exposed to the weather shall be completely covered with a waterproofing material when construction is not in progress.

**9.20.15. Reinforcement for Earthquake Resistance****9.20.15.1. Amount of Reinforcement**

(1) Where reinforcement is required in this Section, masonry walls shall be reinforced horizontally and vertically with steel having a total cross-sectional area of not less than 0.002 times the horizontal cross-sectional area of the wall, so that not less than one-third of the required steel area is installed either horizontally or vertically and the remainder in the other direction.

**9.20.15.2. Installation Standard**

(1) Where reinforcement for masonry is required in this Section, it shall be installed in conformance with the requirements for reinforced masonry as contained in CAN3-A371, "Masonry Construction for Buildings".

**9.20.16. Corrosion Resistance****9.20.16.1. Corrosion Resistance of Connectors**

(1) Carbon steel connectors required to be corrosion-resistant shall be galvanized to at least the minimum standards in Table 9.20.16.1.

**Table 9.20.16.1.****Minimum Requirements for Galvanizing**

Forming Part of Sentence 9.20.16.1.(1)

Connector Material	ASTM Standard	Coating Class
Wire ties and continuous reinforcing (hot-dipped galvanizing)	A153	Class B2 or 458 g/m <sup>2</sup>
Hardware and bolts	A153	See A153

Strip, plate, bars, and rolled sections (not less than 3.18 mm thick)	A123	610 g/m <sup>2</sup>
Sheet (less than 3.18 mm thick)	A123	305 g/m <sup>2</sup> on material 0.76 mm thick <sup>(1)</sup>
Column 1	2	3

**Note to Table 9.20.16.1.:**

(1) ASTM A123 does not apply to metal less than 3.18 mm thick. Galvanizing coatings may be interpolated for thicknesses between 3.18 mm and 0.76 mm.

**Section 9.21. Chimneys and Flues****9.21.1. General****9.21.1.1. Application**

(1) Except when otherwise specifically stated herein, this Section applies to

(a) rectangular *chimneys* of brick masonry or concrete not more than 12 m in height serving fireplaces or *appliances* having a combined total rated heat output of 120 kW or less, and

(b) *flue pipes* serving *appliances* regulated by Article 9.33.5.3.

(2) *Chimneys* and *flue pipes* other than those described in Sentence (1) shall conform to Section 6.3.

**9.21.1.2. Factory-Built Chimneys**

(1) *Factory-built chimneys* serving solid fuel-burning *appliances*, and their installation, shall conform to CAN/ULC-S629, "650°C Factory-Built Chimneys".

**9.21.1.3. Chimneys, Gas Vents or Flue Pipes**

(1) Except as provided in Sentence (2), *chimneys* (other than those described in Sentences 9.21.1.1.(1) and 9.21.1.2.(1)), *gas vents* and *flue pipes* serving gas-, oil- or solid fuel-burning *appliances* and associated equipment shall conform to Subsection 9.33.10. (Note: vents for gas- or oil-burning *appliances* are regulated by Standards administered by other agencies.)

(2) *Flue pipes* serving solid fuel-burning *stoves, ranges* and *space heaters* shall conform to CAN/CSA-B365-M, "Installation Code for Solid-Fuel Burning Appliances and Equipment".

**9.21.1.4. Chimney or Flue Pipe Walls**

(1) The walls of any *chimney* or *flue pipe* shall be constructed to be smoke- and flame-tight.

**9.21.2. Chimney Flues****9.21.2.1. Chimney Flue Limitation**

(1) A *chimney flue* serving a fireplace or incinerator shall not serve any other *appliance*.

**9.21.2.2. Connections of More Than One Appliance**

(1) Except as required in Article 9.21.2.1., two or more fuel-burning *appliances* are permitted to be connected to the same *chimney flue* provided adequate draft is maintained for the connected *appliances* and the connections are made as described in Sentences (2) and (3).

(2) Where 2 or more solid fuel-burning *appliances* are connected to the same *chimney flue*, the *appliances* must be located on the same *storey*.

(3) The connection referred to in Sentence (2) for a solid fuel-burning *appliance* shall be below connections for *appliances* burning other fuels.

(4) Solid fuel-burning *appliances* shall not be connected to a *chimney flue* serving a gas-burning *appliance*.

#### 9.21.2.3. Inclined Chimney Flues

(1) *Chimney flues* shall not be inclined more than 45° to the vertical.

#### 9.21.2.4. Size of Chimney Flues

(1) Except for *chimneys* serving fireplaces, the size of a *chimney flue* shall conform to the requirements of the solid fuel-burning *appliance* installation standards referenced in Sentence 6.2.1.4.(1) and Article 9.33.1.2.

(2) Where a *chimney flue* serves only one solid fuel-burning *appliance*, the *flue* area shall be at least equal to that of the *flue pipe* connected to it.

#### 9.21.2.5. Fireplace Chimneys

(1) The size of a *chimney flue* serving a masonry fireplace shall be within the allowable range specified in Table 9.21.2.5.A. or Table 9.21.2.5.B.

Table 9.21.2.5.A

#### Diameter of Round Flues for Fireplace Chimneys

Forming Part of Sentence 9.21.2.5.(1)

Fireplace Opening, m <sup>2</sup>	Chimney Height, m							
	3.0 to 4.5		>4.5 to 5.9		>5.9 to 8.9		>8.9 to 12	
	Flue diameter, mm							
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Up to 0.150	110	170	100	160	90	150	90	150
0.151 to 0.250	150	210	130	190	130	190	120	180
0.251 to 0.350	180	240	160	220	150	210	140	200
0.351 to 0.500	220	280	200	260	190	250	170	230
0.501 to 0.650	260	320	230	290	220	280	200	260
0.651 to 0.800	290	350	260	320	240	300	220	280
0.801 to 1.00	330	390	290	350	270	330	250	310
1.01 to 1.20	360	420	320	380	300	360	270	330
1.21 to 1.40	390	450	350	410	330	390	300	360
1.41 to 1.60	420	480	380	440	350	410	320	380
1.61 to 1.80	—	—	400	460	370	430	340	400
1.81 to 2.00	—	—	—	—	400	460	360	420
2.01 to 2.20	—	—	—	—	—	—	380	440
Column 1	2	3	4	5	6	7	8	9

Table 9.21.2.5.B

#### Rectangular Flue Sizes for Fireplace Chimneys

Forming Part of Sentence 9.21.2.5.(1)

Fireplace Opening, m <sup>2</sup>	Chimney Height, m							
	3.0 to 4.5		4.5 to 5.9		5.9 to 8.9		8.9 to 12	
	Flue diameter, mm							
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
Up to 0.150	200 x 200	200 x 200	100 x 200	100 x 200	100 x 200	100 x 200	100 x 200	100 x 200
0.151 to 0.250	200 x 200	200 x 200	200 x 200	200 x 200	200 x 200	200 x 200	200 x 200	200 x 200
0.251 to 0.350	200 x 300	200 x 300	200 x 200	200 x 300	200 x 200	200 x 200	200 x 200	200 x 200
0.351 to 0.500	300 x 300	300 x 300	200 x 300	200 x 300	200 x 300	200 x 300	200 x 200	200 x 300
0.501 to 0.650	300 x 300	300 x 400	300 x 300	300 x 300	300 x 300	300 x 300	200 x 300	200 x 300
0.651 to 0.800	300 x 400	300 x 400	300 x 300	300 x 400	300 x 300	300 x 300	300 x 300	300 x 300
0.801 to 1.00	400 x 400	400 x 400	300 x 400	300 x 400	300 x 400	300 x 400	300 x 300	300 x 300
1.01 to 1.20	400 x 400	400 x 400	400 x 400	400 x 400	300 x 400	300 x 400	300 x 400	300 x 400
1.21 to 1.40	—	—	400 x 400	400 x 400	400 x 400	400 x 400	300 x 400	300 x 400
1.41 to 1.60	—	—	—	—	400 x 400	400 x 400	400 x 400	400 x 400
1.61 to 1.80	—	—	—	—	—	—	400 x 400	400 x 400
1.81 to 2.00	—	—	—	—	—	—	400 x 400	400 x 400
Column 1	2	3	4	5	6	7	8	9



**9.21.2.6. Oval Chimney Flues**

(1) The width of an oval *chimney flue* shall be not less than two-thirds its breadth.

**9.21.3. Chimney Lining****9.21.3.1. Lining Materials**

(1) Every *masonry or concrete chimney* shall have a lining of clay, concrete, firebrick or metal.

**9.21.3.2. Joints in Chimney Liners**

(1) Joints of *chimney liners* shall be sealed to provide a barrier to the passage of flue gases and condensate into the cavity between the liner and the surrounding masonry.

(2) Joints of clay, concrete or firebrick *chimney liners* shall be struck flush to provide a straight, smooth, aligned chimney *flue*.

**9.21.3.3. Clay Liners**

(1) Clay liners shall conform to CAN/CSA-A324-M, "Clay Flue Linings".

(2) Liners referred to in Sentence (1) shall be not less than 15.9 mm thick and shall be capable of resisting, without softening or cracking, a temperature of 1 100°C.

**9.21.3.4. Firebrick Liners**

(1) Firebrick liners shall conform to ASTM C27, "Classification of Fireclay and High Alumina Refractory Brick".

(2) Firebrick liners shall be laid with high temperature cement mortar conforming to CAN/CGSB-10.3, "Air Setting Refractory Mortar".

**9.21.3.5. Concrete Liners**

(1) Concrete *flue* liners shall conform to Clause 4.2.6.4. of CAN/CSA-A405, "Design and Construction of Masonry Chimneys and Fireplaces".

**9.21.3.6. Metal Liners**

(1) Metal liners shall be constructed of at least 0.3 mm thick stainless steel.

(2) Except as permitted in Sentence 9.22.10.1.(3), metal liners referred to in Sentence (1) shall only be used in *chimneys* serving gas- or oil-burning *appliances*.

**9.21.3.7. Installation of Chimney Liners**

(1) *Chimney liners* shall be installed when the surrounding masonry or concrete is placed.

**9.21.3.8. Spaces between Liners and Surrounding Masonry**

(1) A space not less than 10 mm wide shall be left between a *chimney liner* and the surrounding masonry.

(2) The space required in Sentence (1) shall not be filled with mortar.

**9.21.3.9. Mortar for Chimney Liners**

(1) *Chimney liners* used in *chimneys* for solid fuel-burning *appliances* shall be laid in a full bed of

(a) high temperature cement mortar conforming to CAN/CGSB 10.3, "Air Setting Refractory Mortar", or

(b) mortar consisting of 1 part portland cement to 3 parts sand by volume.

(2) *Chimney liners* used in *chimneys* for oil- or gas-burning *appliances* shall be laid in a full bed of mortar consisting of 1 part portland cement to 3 parts sand by volume.

**9.21.3.10. Extension of Chimney Liners**

(1) *Chimney liners* shall extend from a point not less than 200 mm below the lowest *flue pipe* connection to a point not less than 50 mm or more than 100 mm above the *chimney* cap.

**9.21.4. Masonry and Concrete Chimney Construction****9.21.4.1. Unit Masonry**

(1) Unit masonry shall conform to Section 9.20.

**9.21.4.2. Concrete**

(1) Concrete shall conform to Section 9.3.

**9.21.4.3. Footings**

(1) Footings for *masonry chimneys* and concrete *chimneys* shall conform to the requirements in Section 9.15.

**9.21.4.4. Height of Chimney Flues**

(1) A *chimney flue* shall extend not less than

(a) 900 mm above the highest point at which the *chimney* comes in contact with the roof, and

(b) not less than 600 mm above the highest roof surface or structure within 3 m of the *chimney*.

**9.21.4.5. Lateral Stability**

(1) Except as provided in Sentence (2), *chimneys* shall be braced to provide lateral stability for wind loads in accordance with CAN3-S304-M, "Masonry Design for Buildings".

(2) A *chimney* need not be laterally braced provided

(a) no horizontal outside dimension is less than 400 mm, and

(b) the *chimney* extends not more than 3.6 m above a roof or the masonry wall of which it forms a part.

**9.21.4.6. Chimney Caps**

(1) The top of a *chimney* shall have a waterproof cap of reinforced concrete, masonry or metal.

(2) The cap required in Sentence (1) shall slope from the lining and be provided with a drip not less than 25 mm from the *chimney* wall.

(3) Cast-in-place concrete caps shall be separated from the *chimney liner* by a bond break and be sealed at that location.

(4) Jointed precast concrete or masonry *chimney* caps shall have flashing installed beneath the cap extending from the liner to the drip edge.

#### 9.21.4.7. Cleanout

(1) Except for a *chimney flue* constructed to serve a masonry fireplace, a cleanout opening with a metal frame and tight-fitting metal door shall be installed near the base of the *chimney flue*.

#### 9.21.4.8. Wall Thickness

(1) The walls of a *masonry chimney* shall be built of solid units not less than 70 mm thick.

#### 9.21.4.9. Separation of Flue Liners

(1) *Flue* liners in the same *chimney* shall be separated by not less than 70 mm of masonry or concrete exclusive of liners where clay liners are used, or 90 mm of firebrick where firebrick liners are used.

(2) *Flue* liners referred to in Sentence (1) shall be installed to prevent significant lateral movement.

#### 9.21.4.10. Flashing

(1) Junctions with adjacent materials shall be adequately flashed to shed water.

### 9.21.5. Clearance from Combustible Construction

#### 9.21.5.1. Clearance from Combustible Materials

(1) The clearance between *masonry or concrete chimneys* and *combustible* framing material shall be not less than

- (a) 50 mm for interior *chimneys*, and
- (b) 12 mm for exterior *chimneys*.

(2) A clearance of not less than 150 mm shall be provided between a cleanout opening and *combustible* material.

(3) *Combustible* flooring, subflooring and ceiling finishes shall have not less than a 12 mm clearance from *masonry or concrete chimneys*.

#### 9.21.5.2. Sealing of Spaces

(1) All spaces between *masonry or concrete chimneys* and *combustible* material shall be sealed top or bottom with *noncombustible* material.

#### 9.21.5.3. Support of Joists or Beams

(1) Joists or beams may be supported on masonry walls which enclose *chimney flues* provided the *combustible* members are separated from the *flue* by a minimum of 290 mm of solid masonry.

## Section 9.22. Fireplaces

### 9.22.1. General

#### 9.22.1.1. Application

(1) Except as otherwise specifically stated herein, this Section applies to masonry fireplaces constructed on site.

### 9.22.1.2. Masonry and Concrete

(1) Except as otherwise stated in this Section, unit masonry shall conform to Section 9.20 and concrete to Section 9.3.

(2) Masonry above openings shall be supported by steel lintels conforming to Sentence 9.20.5.2.(2), reinforced concrete or a masonry arch.

### 9.22.1.3. Footings

(1) Footings for masonry and concrete fireplaces shall conform to Section 9.15.

### 9.22.1.4. Combustion Air

(1) Except as permitted in Articles 9.22.1.5. and 9.22.1.6., every solid fuel-fired fireplace, including a factory-built fireplace, shall have a supply of combustion air from outdoors in accordance with Sentences (2) to (7).

(2) The combustion air shall be supplied by a *noncombustible* and corrosion-resistant supply duct.

(3) The supply duct shall have

- (a) a diameter of not less than 100 mm or equivalent area, and
- (b) an exterior intake for entry of air from the outdoors.

(4) The supply duct shall contain a tight-fitting damper that shall be located close to the interior outlet and be operable from the room containing the fireplace.

(5) The operating mechanism shall clearly indicate the actual position of the damper.

(6) The interior outlet shall

- (a) be located as close as possible to the opening in the face of the fireplace, and
- (b) be designed to prevent embers from entering the supply duct.

(7) Where a supply of combustion air is provided directly to the fire chamber of a fireplace, including a factory-built fireplace or a steel fireplace liner, the installation shall comply with the "Outdoor Air Supply" requirements provided in CAN/CSA-A405-M, "Design and Construction of Masonry Chimneys and Fireplaces".

### 9.22.2. Fireplace Liners

#### 9.22.2.1. Brick or Steel Liners

(1) Except where a fireplace is equipped with a steel liner, every fireplace shall have a firebrick liner.

#### 9.22.2.2. Firebrick Liners

(1) Fireplace liners shall be not less than

- (a) 50 mm thick for the sides and back, and
- (b) 25 mm thick for the floor.

(2) Firebrick liners shall be laid with high temperature cement mortar conforming to CAN/CGSB 10.3, "Air Setting Refractory Mortar".

(3) Joints between a firebrick liner and the adjacent back-up masonry shall be offset.

**9.22.2.3. Steel Liners**

(1) Steel liners for fireplaces shall conform to CAN/ULC-S639M, "Standard for Steel Liner Assemblies for Solid-Fuel Burning Masonry Fireplaces", and shall be installed in accordance with the installation instructions in that Standard.

**9.22.3. Fireplace Walls****9.22.3.1. Thickness of Walls**

(1) Except as provided in Sentence (2), the thickness of the back and sides of a fireplace, including the thickness of any firebrick liner, shall consist of not less than 190 mm thick where a metal liner or a firebrick liner less than 50 mm is used.

(2) When a steel fireplace liner is used with an air circulating chamber surrounding the firebox, the back and sides of the fireplace shall consist of

- (a) solid masonry units not less than 90 mm thick, or
- (b) hollow masonry units not less than 190 mm thick.

**9.22.4. Fire Chamber****9.22.4.1. Fire Chamber Dimensions**

(1) The distance from the back of the fire chamber to the plane of the fireplace opening shall be not less than 300 mm.

**9.22.5. Hearth****9.22.5.1. Hearth Extension**

(1) Except as required in Sentence (2), fireplaces shall have a *noncombustible* hearth extending not less than 400 mm in front of the fireplace opening measured from the facing, and not less than 200 mm beyond each side of the fireplace opening.

(2) Where the fire chamber floor is elevated more than 150 mm above the hearth, the dimension of the hearth measured perpendicular to the plane of the fireplace opening shall be increased by not less than

- (a) 50 mm for an elevation above 150 mm and not more than 300 mm, and
- (b) an additional 25 mm for every 50 mm in elevation above 300 mm.

**9.22.5.2. Support of Hearth**

(1) Except as permitted in Sentence (2), the fire chamber floor and hearth shall be supported on a reinforced concrete slab not less than a 100 mm thick at its supports and, if cantilevered, not less than 50 mm thick at its unsupported edge.

(2) A hearth for a fireplace with an opening raised not less than 200 mm from a *combustible* floor is permitted to be supported on that floor provided the requirements of Clauses 5.3.6.5. to 5.3.6.7. of CAN/CSA-A405-M, "Design and Construction of Masonry Chimneys and Fireplaces" are followed.

**9.22.6. Damper****9.22.6.1. Required Damper and Size**

- (a) The throat of every fireplace shall be equipped with a metal damper sufficiently large to cover the full area of the throat opening.

**9.22.7. Smoke Chamber****9.22.7.1. Slope of Smoke Chamber**

(1) The sides of the smoke chamber connecting a fireplace throat with a *flue* shall not be sloped at an angle greater than 45° to the vertical.

**9.22.7.2. Wall Thickness**

(1) The thickness of masonry walls surrounding the smoke chamber shall be not less than 190 mm at the sides, front and back, except that the portions of the back exposed to the outside may be 140 mm thick.

**9.22.8. Factory-Built Fireplaces****9.22.8.1. Conformance to Standard**

(1) Factory-built fireplaces and their installation shall conform to CAN/ULC S610-M, "Factory-Built Fireplaces".

**9.22.9. Clearance of Combustible Material****9.22.9.1. Clearance to the Fireplace Opening**

(1) *Combustible* material shall not be placed on or near the face of a fireplace within 150 mm of the fireplace opening, except that where the *combustible* material projects more than 38 mm out from the face of the fireplace above the opening, such material shall be at least 300 mm above the top of the opening.

**9.22.9.2. Metal Exposed to the Interior**

(1) Metal exposed to the interior of a fireplace such as the damper control mechanism shall have at least a 50 mm clearance from any *combustible* material on the face of the fireplace where such metal penetrates through the face of the fireplace.

**9.22.9.3. Clearance to Combustible Framing**

(1) Not less than a 100 mm clearance shall be provided between the back and sides of a solid fuel burning fireplace and *combustible* framing, except that a 50 mm clearance is permitted where the fireplace is located in an exterior wall.

(2) Not less than a 50 mm clearance shall be provided between the back and sides of the smoke chamber of a solid fuel burning fireplace and *combustible* framing, except that a 25 mm clearance is permitted where the fireplace is located in an exterior wall.

**9.22.9.4. Heat Circulating Duct Openings**

(1) The clearance of *combustible* material above heat circulating duct openings from those openings shall be not less than

- (a) 300 mm where the *combustible* material projects more than 38 mm from the face, and
- (b) 150 mm where the projection is less than 38 mm.

**9.22.10. Fireplace Inserts****9.22.10.1. Installation Standard**

(1) Fireplace inserts and hearth mounted *stoves* vented through the throat of a fireplace shall conform to ULC S628, "Standard for Fireplace Inserts".



**9.22.10.2. Installation**

(1) The installation of fireplace inserts and hearth mounted *stoves* vented through the throat of a fireplace shall conform to CAN/CSA-B365-M, "Installation Code for Solid-Fuel Burning Appliances and Equipment".

(2) Fireplace inserts and hearth mounted stoves vented through the throat of a fireplace described in Sentence (1) may be installed in existing fireplaces only if a minimum thickness of 190 mm of solid masonry is provided between the smoke chamber and any existing *combustible* materials, unless the insert is listed for lesser clearances.

(3) A fireplace insert installed in a masonry fireplace shall have

- (a) a *listed* metal *chimney* liner installed from the insert collar to the top of the *chimney*,
- (b) a direct sealed connection to the *chimney flue* where such provision is part of an insert conforming to Sentence 9.22.10.1.(1), or
- (c) a direct sealed connection to the smoke chamber and a cleanout provided to any inaccessible part of the smoke chamber.

**Section 9.23. Wood-Frame Construction****9.23.1. Scope****9.23.1.1. Application**

(1) This Section applies to conventional wood-frame construction in which the framing members are spaced not more than 600 mm o.c.

(2) The requirements in this Section with regard to floor framing, subflooring and their fastenings apply to floors for which the design *live load* does not exceed 2.4 kPa.

(3) The requirements in this Section with regard to wall framing and its fastenings apply to walls which support floors for which the design *live load* does not exceed 2.4 kPa on any floor.

(4) Where the conditions in Sentences (2) or (3) are exceeded, the design of the framing and fastening shall conform to Subsection 4.3.1.

**9.23.1.2. Post, Beam and Plank Construction**

(1) Post, beam and plank construction and plank frame wall construction shall conform to Article 9.4.1.2.

**9.23.2. General****9.23.2.1. Strength and Rigidity**

(1) All members shall be so framed, anchored, fastened, tied and braced to provide the necessary strength and rigidity.

**9.23.2.2. Protection from Decay**

(1) Ends of wood joists, beams and other members framing into masonry or concrete shall be treated to prevent decay where the bottom of the member is at or below ground level, or a 12 mm air space shall be provided at the end and sides of the member.

(2) Air spaces required in Sentence (1) shall not be blocked by insulation, *vapour barriers* or air tight materials.

**9.23.2.3. Protection from Dampness**

(1) Except as permitted in Sentence (2), wood framing members that are not pressure treated with a wood preservative and which are supported on concrete in contact with the ground or *fill* shall be separated from the concrete by not less than 0.05 mm polyethylene film or Type S roll roofing.

(2) Dampproofing material referred to in Sentence (1) is not required where the wood member is at least 150 mm above the ground.

**9.23.2.4. Lumber**

(1) Lumber shall conform to the appropriate requirements in Subsection 9.3.2.

**9.23.2.5. Termite Protection**

(1) Where termites are known to exist, unless pressure treated with a chemical that is toxic to such termites in accordance with Article 9.3.2.9., wood steps shall rest on a non-cellulosic base or apron extending at least 150 mm above *grade*.

(2) Wood lattice or skirting around porches shall be separated from piers and *soil* by at least 50 mm.

**9.23.3. Fasteners****9.23.3.1. Standards for Nails and Screws**

(1) Unless otherwise indicated, nails specified in this Section shall be common steel wire nails or common spiral nails, conforming to CSA B111, "Wire Nails, Spikes and Staples".

(2) Wood screws specified in this Section shall conform to ANSI B18.6.1., "Slotted and Recessed Wood Screws (Inch Series)".

**9.23.3.2. Length of Nails**

(1) All nails shall be long enough so that not less than half their required length penetrates into the second member.

**9.23.3.3. Prevention of Splitting**

(1) Splitting of wood members shall be minimized by staggering the nails in the direction of the grain and by keeping nails well in from the edges.

**9.23.3.4. Nailing of Framing**

(1) Except as provided in Sentence (2), nailing of framing shall conform to Table 9.23.3.4.

(2) Where the bottom wall plate or sole plate of an exterior wall is not nailed to joists or blocking in conformance with Table 9.23.3.4., the exterior wall may be fastened to the floor framing by

- (a) having plywood, OSB or waferboard sheathing extend down over floor framing and fastened to the floor framing by nails or staples conforming to Article 9.23.3.5., or
- (b) tying the wall framing to the floor framing by 50 mm wide galvanized-metal strips
  - (i) not less than 0.41 mm in thickness,
  - (ii) spaced not more than 1 200 mm apart, and
  - (iii) fastened at each end with at least two 63 mm nails.

Table 9.23.3.4.

## Nailing for Framing

Forming Part of Sentence 9.23.3.4.(1)

Construction Detail	Minimum Length of Nails, mm	Minimum Number or Maximum Spacing of Nails
Floor joist to plate – toe nail	82	2
Wood or metal strapping to underside of floor joists	57	2
Cross bridging to joists	57	2 at each end
Double header or trimmer joists	76	300 mm (o.c.)
Floor joist to stud (balloon construction)	76	2
Ledger strip to wood beam	82	2 per joist
Joist to joist splice (See also Table 9.23.13.8.)	76	2 at each end
Tail joist to adjacent header joist (end nailed) around openings	82 101	5 3
Each header joist to adjacent trimmer joist (end nailed) around openings	82 101	5 3
Stud to wall plate (each end) toe nail	63	4
or end nail	82	2
Doubled studs at openings, or studs at walls or wall intersections and corners	76	750 mm (o.c.)
Doubled top wall plates	76	600 mm (o.c.)
Bottom wall plate or sole plate to joists or blocking (exterior walls) <sup>(1)</sup>	82	400 mm (o.c.)
Interior walls to framing or subflooring	82	600 mm (o.c.)

Horizontal member over openings in non-loadbearing walls - each end	82	2
Lintels to studs	82	2 at each end
Ceiling joist to plate – toe nail each end	82	2
Roof rafter, roof truss or roof joist to plate – toe nail	82	3
Rafter plate to each ceiling joist	101	2
Rafter to joist (with ridge supported)	76	3
Rafter to joist (with ridge unsupported)	76	See Table 9.23.13.8.
Gusset plate to each rafter at peak	57	4
Rafter to ridge board – toe nail – end nail	82	3
Collar tie to rafter – each end	76	3
Collar tie lateral support to each collar tie	57	2
Jack rafter to hip or valley rafter	82	2
Roof strut to rafter	76	3
Roof strut to loadbearing wall – toe nail	82	2
38 mm x 140 mm or less plank decking to support	82	2
Plank decking wider than 38 mm x 140 mm to support	82	3
38 mm edge laid plank decking to support (toe nail)	76	1
38 mm edge laid plank to each other	76	450 mm (o.c.)
Column 1	2	3

Note to Table 9.23.3.4.:

<sup>(1)</sup> See Sentence 9.23.3.4.(2).

## 9.23.3.5. Fastening for Sheathing or Subflooring

(1) Fastening of sheathing and subflooring shall conform to Table 9.23.3.5.

Table 9.23.3.5.

## Fasteners for Sheathing and Subflooring

Forming Part of Sentence 9.23.3.5.(1)

Element	Minimum Length of Fasteners, mm				Minimum Number or Maximum Spacing of Fastener
	Common or Spiral Nails	Ring Thread Nails or Screws	Roofing Nails	Staples	
Board lumber 184 mm or less wide	51	45	N/A	51	2 per support
Board Lumber more than 184 mm wide	51	45	N/A	51	3 per support
Fibreboard sheathing up to 13 mm thick	N/A	N/A	44	28	
Gypsum sheathing up to 13 mm thick	N/A	N/A	44	N/A	
Plywood, OSB or waferboard up to 10 mm thick	51	45	N/A	38	
Plywood, OSB or waferboard from 10 mm to 20 mm thick	51	45	N/A	51	
Plywood, OSB or waferboard over 20 mm Thick	57	51	N/A	N/A	150 mm (o.c.) along edges and 300 mm (o.c.) along intermediate supports
Column 1	2	3	4	5	6

(2) Staples shall not be less than 1.6 mm in diameter or thickness, with not less than a 9.5 mm crown driven with the crown parallel to framing.

(3) Roofing nails for the attachment of fibreboard or gypsum sheathing shall not be less than 3.2 mm in diameter with a minimum head diameter of 11.1 mm.

(4) Flooring screws shall not be less than 3.2 mm in diameter.

#### 9.23.4. Maximum Spans

##### 9.23.4.1. Application

(1) Spans provided in this Subsection for joists, beams and lintels supporting floors shall apply only where

- (a) the floors serve residential areas as described in Table 4.1.6.3., or
- (b) the uniformly distributed *live load* on the floors do not exceed that specified for residential areas as described in Table 4.1.6.3.

(2) Spans for joists, beams and lintels supporting floors shall be determined according to Subsection 4.1.3. where the supported floors

- (a) serve other than residential areas, or
- (b) support a uniform *live load* in excess of that specified for residential areas.

##### 9.23.4.2 Spans for Joists, Rafters and Beams

(1) Except as required in Sentence (2), the spans for wood joists, rafters and beams shall conform to the spans shown in Tables A-1 to A-7 for the uniform *live loads* shown in the tables.

(2) Spans for floor joists which are not selected from Tables A-1 and A-2 and which are required to be designed for the same loading conditions, shall not exceed the design requirements for uniform loading and vibration criteria.

(3) Spans for built-up wood and glued-laminated timber floor beams shall conform to the spans in Tables A-8 to A-11.

(4) Spans for roof ridge beams shall conform to the spans in Table A-12 for the uniform snow load shown.

##### 9.23.4.3. Steel Beams

(1) The spans for steel floor beams with laterally supported top flanges shall conform to Table 9.23.4.3.

(2) Beams described in Sentence (1) shall at least meet the requirements for Grade 300 W steel in CAN/CSA-G40.21-M, "Structural Quality Steels".

(3) A beam may be considered to be laterally supported if

- (a) the wood joists bear on its top flange at intervals of 610 mm or less over its entire length,
- (b) the load being applied to this beam is transmitted through the joists, and
- (c) 19 mm by 38 mm wood strips in contact with the top flange are nailed on both sides of the beam to the bottom of the joist supported.

Table 9.23.4.3.

#### Maximum Spans for Steel Beams Supporting Floors in Dwelling Units<sup>(1)</sup>

Forming Part of Sentence 9.23.4.3.(1)

Section	Supported Joist Length, m (Half the sum of joist spans on both sides of the beam)						
	2.4	3.0	3.6	4.2	4.8	5.4	6.0
One Storey Supported							
W150 x 22	5.5	5.2	4.9	4.8	4.5	4.3	4.1
W200 x 21	6.5	6.2	5.7	5.3	5.0	4.7	4.5
W200 x 27	7.3	6.9	6.6	6.3	6.1	5.8	5.5
W200 x 31	7.8	7.4	7.1	6.8	6.6	6.4	6.1
W250 x 24	8.1	7.5	6.9	6.4	6.0	5.7	5.4
W250 x 33	9.2	8.7	8.3	8.0	7.6	7.2	6.9
W250 x 39	10.0	9.4	9.0	8.6	8.3	8.9	7.6
W310 x 31	10.4	9.6	8.8	8.2	7.7	7.3	7.0
W310 x 39	11.3	10.7	10.2	9.8	9.2	8.7	8.3
Two Storeys Supported							
W150 x 22	4.7	4.2	3.9	3.6	3.4	3.2	3.0
W200 x 21	5.2	4.7	4.3	4.0	3.7	3.5	3.4
W200 x 27	6.3	5.7	5.2	4.8	4.5	4.3	4.1
W200 x 31	6.9	6.2	5.7	5.3	5.0	4.7	4.5
W250 x 24	6.2	5.6	5.1	4.8	4.5	4.2	4.0
W250 x 33	7.9	7.1	6.5	6.0	5.7	5.4	5.1
W250 x 39	8.7	7.8	7.2	6.7	6.3	5.9	5.6
W310 x 31	8.0	7.2	6.6	6.1	5.8	5.4	5.2
W310 x 39	9.5	8.6	7.9	7.3	6.9	6.5	6.2
Column 1	2	3	4	5	6	7	8



**9.23.4.4. Concrete Topping**

(1) Except as permitted in Sentence (2), where a floor is required to support a concrete topping, the joist spans shown in Table A-1 or the spacing of the members shall be reduced to allow for the loads due to the topping.

(2) Where a floor is required to support a concrete topping, joist spans are permitted to be selected from Table A-2 provided the concrete

(a) is 38 to 51 mm thick,

(b) is normal weight,

(c) is placed directly on the subflooring, and

(d) has not less than 20 MPa compressive strength after 28 days.

(3) Where a floor is required to support a concrete topping, the beam spans shown in Tables A-8 to A-11 or the supported length of the floor joists shall be reduced to allow for the loads due to the topping.

**9.23.4.5. Heavy Roofing Materials**

(1) Where a roof is required to support an additional uniform *dead load* from roofing materials such as concrete roofing tile, or materials other than as specified in Section 9.26., such as clay roofing tiles, the additional load shall be allowed for by reducing

(a) the spans for roof joists and rafters in Tables A-4 to A-7, or the spacing of the members, and

(b) the spans for ridge beams and lintels in Tables A-12 to A-20.

**9.23.5. Notching and Drilling****9.23.5.1. Holes Drilled in Framing Members**

(1) Holes drilled in roof, floor or ceiling framing members shall be not larger than one-quarter the depth of the member and shall be located not less than 50 mm from the edges, unless the depth of the member is increased by the size of the hole.

**9.23.5.2. Notching of Framing Members**

(1) Floor, roof and ceiling framing members are permitted to be notched provided the notch is located on the top of the member within half the joist depth from the edge of bearing and is not deeper than one-third the joist depth, unless the depth of the member is increased by the size of the notch.

**9.23.5.3. Wall Studs**

(1) Wall studs shall not be notched, drilled or otherwise damaged so that the undamaged portion of the stud is less than two-thirds the depth of the stud if the stud is *loadbearing* or 40 mm if the stud is *non-loadbearing*, unless the weakened studs are suitably reinforced.

**9.23.5.4. Top Plates**

(1) Top plates in walls shall not be notched, drilled or otherwise weakened to reduce the undamaged width to less than 50 mm unless the weakened plates are suitably reinforced.

**9.23.5.5. Roof Trusses**

(1) Roof truss members shall not be notched, drilled or otherwise weakened unless such notching or drilling is allowed for in the design of the truss.

**9.23.6. Anchorage****9.23.6.1. Anchorage of Building Frames**

(1) *Building* frames shall be anchored to the *foundation* unless a structural analysis of wind and earth pressures shows anchorage is not required.

(2) Except as provided in Article 9.23.6.3., anchorage shall be provided by embedding the ends of the first floor joists in concrete, or fastening the sill plate to the *foundation* with not less than 12.7 mm diam anchor bolts spaced not more than 2 400 mm o.c.

(3) Anchor bolts referred to in Sentence (2) shall be fastened to the sill plate with nuts and washers and shall be embedded not less than 100 mm in the *foundation* and so designed that they may be tightened without withdrawing them from the *foundation*.

**9.23.6.2. Anchorage of Columns and Posts**

(1) Exterior columns and posts shall be anchored to resist uplift and lateral movement.

**9.23.6.3. Anchorage of Smaller Buildings**

(1) *Buildings* not more than 4.3 m wide and not more than 1 *storey* in *building height* are permitted to be anchored in conformance with the requirements of CAN/CSA-Z240.10.1., "Site Preparation, Foundation and Anchorage of Mobile Homes".

**9.23.7. Sill Plates****9.23.7.1. Size of Sill Plates**

(1) Where sill plates provide bearing for the floor system they shall be not less than 38 mm by 89 mm material.

**9.23.7.2. Levelling of Sill Plates**

(1) Sill plates shall be levelled by setting them on a full bed of mortar, except that where the top of the *foundation* is level, they may be laid directly on the *foundation* provided the junction between the *foundation* and the sill plate is caulked or the sill plate is placed on a layer of mineral wool not less than 25 mm thick before being compressed.

**9.23.8. Beams to Support Floors****9.23.8.1. Bearing for Beams**

(1) Beams shall have even and level bearing and shall have not less than 89 mm length of bearing at end supports.

**9.23.8.2. Priming of Steel Beams**

(1) Steel beams shall be shop primed.

**9.23.8.3. Built-up Wood Beams**

(1) Where a beam is made up of individual pieces of lumber that are nailed together, the individual members shall be 38 mm or greater in thickness and installed on edge.

(2) Except as permitted in Sentence (3), where individual members of a built-up beam are butted together to form a joint, the joint shall occur over a support.

(3) Where a beam is continuous over more than 1 span, individual members are permitted to be butted together to form a joint at or within 150 mm of the end quarter points of the clear spans, provided the quarter points are not those closest to the ends of the beam.

(4) Members joined at quarter points shall be continuous over adjacent supports.

(5) Joints in individual members of a beam that are located at or near the end quarter points shall not occur in adjacent members at the same quarter point and shall not reduce the effective beam width by more than half.

(6) Not more than 1 butt joint shall occur in any individual member of a built-up beam within any one span.

(7) Except as provided in Sentence (8), where 38 mm members are laid on edge to form a built-up beam, individual members shall be nailed together with a double row of nails not less than 89 mm in length, spaced not more than 450 mm apart in each row with the end nails located 100 mm to 150 mm from the end of each piece.

(8) Where 38 mm members in built-up wood beams are not nailed together as provided in Sentence (7), they shall be bolted together with not less than 12.7 mm diam bolts equipped with washers and spaced not more than 1 200 mm o.c., with the end bolts located not more than 600 mm from the ends of the members.

### 9.23.9. Floor Joists

#### 9.23.9.1. End Bearing for Joists

(1) Except when supported on ribbon boards, floor joists shall have not less than 38 mm length of end bearing.

(2) Ribbon boards referred to in Sentence (1) shall be not less than 19 mm by 89 mm lumber let into the studs.

#### 9.23.9.2. Joists Supported by Beams

(1) Floor joists may be supported on the tops of beams or may be framed into the sides of beams.

(2) When framed into the side of a wood beam, joists referred to in Sentence (1) shall be supported on

- (a) joist hangers or other acceptable mechanical connectors, or
- (b) not less than 38 mm by 64 mm ledger strips nailed to the side of the beam, except that 38 mm by 38 mm ledger strips may be used provided each joist is nailed to the beam by at least four 89 mm nails, in addition to the nailing for the ledger strip required in Table 9.23.3.4.

(3) When framed into the side of a steel beam, joists referred to in Sentence (1) shall be supported on the bottom flange of the beam or on not less than 38 mm by 38 mm lumber bolted to the web with not less than 6.3 mm diam bolts spaced not more than 600 mm apart.

(4) Joists referred to in Sentence (3) shall be spliced above the beam with not less than 38 mm by 38 mm lumber at least 600 mm long to support the flooring.

(5) Not less than a 12 mm space shall be provided between the splice required in Sentence (4) and the beam to allow for shrinkage of the wood joists.

#### 9.23.9.3. Restraint of Joist Bottoms

(1) Except as provided in Sentence 9.23.9.4.(5), bottoms of floor joists shall be restrained from twisting at each end by toe-nailing to the supports, end-nailing to the header joists or by providing continuous strapping, blocking between the joists or cross-bridging near the supports.

#### 9.23.9.4. Strapping and Bridging in Tables A-1 and A-2

(1) Where a panel-type ceiling finish is attached to wood furring, the provisions of Article 9.23.9.5. shall apply.

(2) Except as permitted in Sentence (5), where strapping is specified, it shall be

- (a) not less than 19 mm by 64 mm, nailed to the underside of floor joists
- (b) located not more than 2 100 mm from each support or other rows of strapping, and
- (c) fastened at each end to a sill or header.

(3) Where bridging is specified in Table A-1, it shall consist of not less than 19 mm by 64 mm or 38 mm by 38 mm cross-bridging located not more than 2 100 mm from each support or other rows of bridging.

(4) Where bridging and strapping are specified in Tables A-1 and A-2, they shall consist of

- (a) bridging as described in Sentence (3), together with, wood strapping as described in Sentence (2), or
- (b) 38 mm solid blocking located not more than 2 100 mm from each support or other rows of bridging and securely fastened between the joists, together with wood strapping as defined in Sentence (2).

(5) Strapping is not required if furring strips or a panel-type ceiling finish is attached directly to the joists.

#### 9.23.9.5. Ceiling in Table A2

(1) Where a ceiling is specified in Table A-2, it shall consist of gypsum board, plywood or OSB not less than 12.7 mm thick attached to

- (a) 19 mm by 89 mm wood furring spaced at not more than 600 mm o.c., or
- (b) 19 mm by 64 mm wood furring spaced at not more than 400 mm o.c.

#### 9.23.9.5. Header Joists

(1) Header joists around floor openings shall be doubled when they exceed 1 200 mm in length.

(2) The size of header joists exceeding 3.2 m in length shall be determined by calculations.

#### 9.23.9.6. Trimmer Joists

(1) Trimmer joists around floor openings shall be doubled when the length of the header joist exceeds 800 mm.

(2) When the header joist exceeds 2 000 mm in length the size of the trimmer joists shall be determined by calculations.

#### 9.23.9.7. Support of Tail and Header Joists

(1) When tail joists and header joists are supported by the floor framing, they shall be supported by suitable joist hangers or nailing in accordance with Table 9.23.3.4.

#### 9.23.9.8. Support of Walls

(1) Non-loadbearing walls parallel to the floor joists shall be supported by joists beneath the wall or on blocking between the joists.

(2) Blocking referred to in Sentence (1) for the support of non-loadbearing walls shall be not less than 38 mm by 89 mm lumber, spaced not more than 1 200 mm apart.

(3) Non-loadbearing interior walls at right angles to the floor joists are not restricted as to location.

(4) Loadbearing interior walls parallel to floor joists shall be supported by beams or walls of sufficient strength to transfer safely the design loads to vertical supports.

(5) Loadbearing interior walls at right angles to floor joists shall be located not more than 900 mm from the joist support when the wall does not support a floor, and not more than 600 mm from the joist support when the wall supports one or more floors, unless the joist size is designed to support such loads.

#### 9.23.9.9. Cantilevered Floor Joists

(1) Floor joists supporting roof loads shall not be cantilevered more than 400 mm beyond their supports where 38 mm by 184 mm joists are

used and not more than 600 mm beyond their supports where 38 mm by 235 mm or larger joists are used.

(2) The cantilevered portions referred to in Sentence (1) shall not support floor loads from other storeys unless calculations are provided to show that the design resistances of the cantilevered joists are not exceeded.

(3) Where cantilevered floor joists described in Sentences (1) and (2) are at right angles to the main floor joists, the tail joists in the cantilevered portion shall

(a) extend inward away from the cantilever support a distance equal to not less than 6 times the length of the cantilever, and

(b) shall be end nailed to an interior doubled header joist in conformance with Table 9.23.3.4.

#### 9.23.10. Wall Studs

##### 9.23.10.1. Stud Size and Spacing

(1) The size and spacing of studs shall conform to Table 9.23.10.1.

**Table 9.23.10.1.**  
**Size and Spacing of Studs**  
Forming Part of Sentence 9.23.10.1.(1)

Type of Wall	Supported Loads (including dead loads)	Minimum Stud Size, mm	Maximum Stud Spacing, mm	Maximum Unsupported Height, m
Interior	No load	38 x 38 38 x 89 flat <sup>(1)</sup>	400 400	2.4 3.6
	Attic not accessible by a stairway	38 x 64 38 x 64 flat <sup>(1)</sup> 38 x 89 38 x 89 flat <sup>(1)</sup>	600 400 600 400	3.0 2.4 3.6 2.4
	Attic accessible by a stairway plus one floor Roof load plus one floor Attic not accessible by stairway plus 2 floors	38 x 89	400	3.6
	Roof load Attic accessible by a stairway Attic not accessible by a stairway plus one floor	38 x 64 38 x 89	400 600	2.4 3.6
	Attic accessible by a stairway plus 2 floors Roof load plus 2 floors	38 x 89 64 x 89 38 x 140	300 400 400	3.6 3.6 4.2
	Attic accessible by a stairway plus 3 floors Roof load plus 3 floors	38 x 140	300	4.2
Exterior	Roof with or without attic storage	38 x 64 38 x 89	400 600	2.4 3.0
	Roof with or without attic storage plus one floor	38 x 89 38 x 140	400 600	3.0 3.0
	Roof with or without attic storage plus 2 floors	38 x 89 64 x 89 38 x 140	300 400 400	3.0 3.0 3.6
	Roof with or without attic storage plus 3 floors	38 x 140	300	1.8
Column 1	2	3	4	5

**Note to Table 9.23.10.1.:**

<sup>(1)</sup> See Article 9.23.10.3.



**9.23.10.2. Bracing and Lateral Support**

(1) Except as provided in Sentence (2), each exterior wall in each storey shall be braced with at least one diagonal brace conforming to Sentence (3).

(2) Bracing is not required where the walls

- (a) have an interior finish conforming to the requirements of Section 9.29, or
- (b) where the walls are
  - (i) clad with panel type siding,
  - (ii) diagonally sheathed with lumber, or
  - (iii) sheathed with plywood, OSB, waferboard, gypsum or fibreboard sheathing.

(3) Where bracing is required, it shall

- (a) consist of not less than 19 mm x 89 mm wood members,
- (b) be applied to the studs at an angle of approximately 45° to the horizontal, and
- (c) extend the full height of the wall on each storey.

(4) Bracing described in Sentence (3) shall be nailed to each stud and wall plate by at least two 63 mm nails.

(5) Where *loadbearing* interior walls are not finished in accordance with Sentence (2), blocking or strapping shall be fastened to the studs at mid-height to prevent sideways buckling.

**9.23.10.3. Orientation of Studs**

(1) Except as permitted in Sentences (2) and (3), all studs shall be placed at right angles to the wall face.

(2) Studs on the flat are permitted to be used in gable ends of roofs that contain only unfinished space or in non-*loadbearing* interior walls within the limits described in Article 9.23.10.1.

(3) Wall studs that support only a load from an attic not accessible by a stairway are permitted to be placed on the flat within the limits permitted in Article 9.23.10.1. provided

- (a) the studs are clad on not less than 1 side with plywood, OSB or waferboard sheathing fastened to the face of the studs with a structural adhesive, and
- (b) the portion of the roof supported by the studs does not exceed 2 100 mm in width.

**9.23.10.4. Continuity of Studs**

(1) Wall studs shall be continuous for the full storey height except at openings and shall not be spliced except by finger-jointing with a structural adhesive.

**9.23.10.5. Support for Cladding Materials**

(1) Corners and intersections shall be designed to provide adequate support for the vertical edges of interior finishes, sheathing and cladding materials, and in no instance shall exterior corners be framed with less than the equivalent of 2 studs.

(2) Where the vertical edges of interior finishes at wall intersections are supported at vertical intervals by blocking or furring, the vertical distance between such supports shall not exceed the maximum distance between supports specified in Section 9.29.

**9.23.10.6. Studs at Sides of Openings**

(1) Except as provided in Sentence (2), studs shall be doubled on each side of openings so that the inner studs extend from the lintel to the bottom wall plate and the outer studs extend from the top wall plates to the bottom wall plate.

(2) Single studs are permitted to be used on either side of openings

- (a) in non-*loadbearing* interior walls not required to have *fire-resistance ratings* provided the studs extend from the top wall plate to the bottom wall plate, or
- (b) in *loadbearing* or non-*loadbearing* interior or exterior walls, provided
  - (i) the opening is less than and within the required stud spacing, and
  - (ii) no 2 such openings of full stud space width are located in adjacent stud spaces.

**9.23.11. Wall Plates****9.23.11.1. Size of Wall Plates**

(1) Except as provided in Sentence (2), wall plates shall be

- (a) not less than 38 mm thick, and
- (b) not less than the required width of the wall studs.

(2) In non-*loadbearing* walls and in *loadbearing* walls where the studs are located directly over framing members, the bottom wall plate may be 19 mm thick.

**9.23.11.2. Bottom Wall Plates**

(1) A bottom wall plate shall be provided in all cases.

(2) The bottom plate in exterior walls shall not project more than one third the plate width over the support.

**9.23.11.3. Top Plates**

(1) Except as permitted in Sentences (2) to (4), no fewer than 2 top plates shall be provided in *loadbearing* walls.

(2) A single top plate is permitted to be used in a section of a *loadbearing* wall containing a lintel provided the top plate forms a tie across the lintel.

(3) A single top plate is permitted to be used in *loadbearing* walls where the concentrated loads from ceilings, floors and roofs are not more than 50 mm to one side of the supporting studs and in all non-*loadbearing* walls.

(4) The top plates need not be provided in a section of *loadbearing* wall containing a lintel provided the lintel is tied to the adjacent wall section with

- (a) not less than 75 mm by 150 mm by 0.91 mm thick galvanized steel, or
- (b) 19 mm by 89 mm by 300 mm wood splice nailed to each wall section with at least three 63 mm nails.

**9.23.11.4. Joints in Top Plates**

(1) Joints in the top plates of *loadbearing* walls shall be staggered not less than one stud spacing.

(2) The top plates in *loadbearing* walls shall be lapped or otherwise suitably tied at corners and intersecting walls in accordance with Sentence (4).

(3) Joints in single top plates used with *loadbearing* walls shall be tied in accordance with Sentence (4).

(4) Ties referred to in Sentences (2) and (3) shall be the equivalent of not less than 75 mm by 150 mm by 0.91 mm thick galvanized steel nailed to each wall with at least three 63 mm nails.

**9.23.12. Framing Over Openings****9.23.12.1. Openings in Non-Loadbearing Walls**

(1) Except as provided in Sentence (2), openings in *non-loadbearing* walls shall be framed with not less than 38 mm material the same width as the studs securely nailed to adjacent studs.

(2) Openings for doors in *non-loadbearing* walls required to be *fire separations* with a *fire-resistance rating* shall be framed with the equivalent of at least two 38 mm thick members that are the same width as the wall plates.

**9.23.12.2. Openings in Loadbearing Walls**

(1) Openings in *loadbearing* walls greater than the required stud spacing shall be framed with lintels designed to carry the superimposed loads to adjacent studs.

(2) Except as provided in Sentence 9.23.12.3.(3), where 2 or more members are used in lintels, they shall be fastened together with not less than 82 mm nails in a double row, with nails not more than 450 mm apart in each row.

(3) Lintel members may be separated by filler pieces.

**9.23.12.3. Lintel Spans and Sizes**

(1) Spans and sizes of wood lintels shall conform to the spans shown in Tables A-13 to A-20

(a) for *buildings of residential occupancy*,

(b) where the wall studs exceed 38 mm by 64 mm in size,

(c) where the spans of supported joists do not exceed 4.9 m, and

(d) where the spans of trusses do not exceed 9.8 m.

(2) In *loadbearing* exterior and interior walls of 38 x 64 mm framing members, lintels shall consist of

(a) solid 64 mm thick members on edge,

(b) 38 mm thick and 19 mm thick members fastened together with a double row of nails not less than 63 mm long and spaced not more than 450 mm apart.

(3) Lintels referred to in Sentence (2)

(a) shall be not less than 50 mm greater in depth than those shown in Tables A-13 to A-20 for the maximum spans shown, and

(b) shall not exceed 2 240 mm in length.

**9.23.13. Roof and Ceiling Framing****9.23.13.1. Continuity of Rafters and Joists**

(1) Roof rafters and joists and ceiling joists shall be continuous or shall be spliced over vertical supports that extend to suitable bearing.

**9.23.13.2. Framing around Openings**

(1) Roof and ceiling framing members shall be doubled on each side of openings greater than 2 rafter or joist spacings wide.

**9.23.13.3. End Bearing Length**

(1) The length of end bearing of joists and rafters shall be not less than 38 mm.

**9.23.13.4. Location and Attachment of Rafters**

(1) Rafters shall be located directly opposite each other and tied together at the peak, or may be offset by their own thickness if nailed to a ridge board not less than 17.5 mm thick.

(2) Except as permitted in Sentence (3), framing members shall be connected by gusset plates or nailing at the peak in conformance with Table 9.23.3.4.

(3) Where the roof framing on opposite sides of the peak is assembled separately, such as in the case of factory-built houses, the roof framing on opposite sides is permitted to be fastened together with galvanized-steel strips not less than 200 mm by 75 mm by 0.41 mm thick spaced not more than 1 200 mm apart and nailed at each end to the framing by at least two 63 mm nails.

**9.23.13.5. Shaping of Rafters**

(1) Rafters shall be shaped at supports to provide even bearing surfaces and supported directly above the exterior walls.

**9.23.13.6. Hip and Valley Rafters**

(1) Hip and valley rafters shall be not less than 50 mm greater in depth than the common rafters and not less than 38 mm thick, actual dimension.

**9.23.13.7. Intermediate Support for Rafters and Joists**

(1) Ceiling joists and collar ties of not less than 38 mm by 89 mm lumber are permitted to be assumed to provide intermediate support to reduce the span for rafters and joists where the roof slope is 1 in 3 or greater.

(2) Collar ties referred to in Sentence (1) more than 2 400 mm long shall be laterally supported near their centres by not less than 19 mm by 89 mm continuous members at right angles to the collar ties.

(3) Dwarf walls and struts may be used to provide intermediate support to reduce the span for rafters and joists.

(4) When struts are used to provide intermediate support they shall be not less than 38 mm by 89 mm material extending from each rafter to a *loadbearing* wall at an angle of not less than 45° to the horizontal.

(5) When dwarf walls are used for rafter support, they shall be framed in the same manner as *loadbearing* walls and securely fastened top and bottom to the roof and ceiling framing to prevent over-all movement.

(6) Solid blocking shall be installed between floor joists beneath dwarf walls referred to in Sentence (5) that enclose finished rooms.

**9.23.13.8. Ridge Support**

(1) Except as provided in Sentence (4), roof rafters and joists shall be supported at the ridge of the roof by

- (a) a *loadbearing* wall extending from the ridge to suitable bearing, or
- (b) a ridge beam supported by not less than 89 mm length of bearing.

(2) Except as provided in Sentence (3), the ridge beam referred to in Sentence (1) shall conform to the sizes and spans shown in Table A-12, provided

- (a) the supported rafter or joist length does not exceed 4.9 m, and
- (b) the roof does not support any concentrated loads.

(3) The ridge beam referred to in Sentence (1) need not comply with Sentence (2) where

(a) the beam is of not less than 38 mm x 140 mm material, and

(b) the beam is supported at intervals not exceeding 1 200 mm by not less than 38 mm by 89 mm members extending vertically from the ridge to suitable bearing.

(4) When the roof slope is 1 in 3 or more, ridge support need not be provided when the lower ends of the rafters are adequately tied to prevent outward movement.

(5) Ties required in Sentence (4) are permitted to consist of tie rods or ceiling joists forming a continuous tie for opposing rafters and nailed in accordance with Table 9.23.13.8.

(6) Ceiling joists referred to in Sentence (5) shall be fastened together with at least one more nail per joist splice than required for the rafter to joist connection shown in the Table 9.23.13.8.

(7) Members referred to in Sentence (6) are permitted to be fastened together either directly or through a gusset plate.

**Table 9.23.13.8.****Rafter-to-Joist Nailing (Unsupported Ridge)**

Forming Part of Sentences 9.23.13.8.(5) and (6)

Roof Slope	Rafter Spacing, mm	Minimum Number of Nails not less than 75 mm Long											
		Rafter Tied to every Joist						Rafter tied to Joist every 1.2 m					
		Building Width up to 8 m			Building Width up to 9.8 m			Building Width up to 8 m			Building Width up to 9.8 m		
		Roof Snow Load, kPa			Roof Snow Load, kPa			Roof Snow Load, kPa			Roof Snow Load, kPa		
		1.0 or less	1.5	2.0 or less	1.0 or less	1.5	2.0 or more	1.0 or less	1.5	2.0 or more	1.0 or less	1.5	2.0 or more
1 in 3	400 600	4 6	5 8	6 9	5 8	7 —	8 —	11 11	— —	— —	— —	— —	— —
1 in 2.4	400 600	4 5	4 7	5 8	5 7	6 9	7 11	7 7	10 10	— —	9 —	— —	— —
1 in 2	400 600	4 4	4 5	4 6	4 5	4 7	5 8	6 6	8 8	9 9	8 8	— —	— —
1 in 1.71	400 600	4 4	4 4	4 5	4 5	4 6	4 7	5 5	7 7	8 8	7 7	9 9	11 11
1 in 1.33	400 600	4 4	4 4	4 4	4 4	4 4	4 5	4 4	5 5	6 6	5 5	6 6	7 7
1 in 1	400 600	4 4	4 4	4 4	4 4	4 4	4 4	4 4	4 4	4 4	4 4	4 4	5 5
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14

**9.23.13.9. Restraint of Joist Bottoms**

(1) Roof joists supporting a finished ceiling, other than plywood, OSB or waferboard, shall be restrained from twisting along the bottom edges by means of furring, blocking, cross bridging or strapping conforming to Article 9.23.9.3.

**9.23.13.10. Ceiling Loads Supporting Roof Loads**

(1) Except as permitted in Sentence (2), ceiling joists supporting part of the roof load from the rafters shall be not less than 25 mm greater in depth than required for ceiling joists not supporting part of the roof load.

(2) When the roof slope is 1 in 4 or less, the ceiling joist sizes referred to in Sentence (1) shall be determined from the span tables for roof joists.

**9.23.13.11. Wood Roof Trusses**

(1) Roof trusses which are not designed in accordance with Part 4 shall

- (a) be capable of supporting a total ceiling load (*dead load plus live load*) of 0.5 kPa plus two and two-thirds times the specified live roof load for 24 h, and



- (b) not exceed the deflections shown in Table 9.23.13.11. when loaded with the ceiling load plus one and one-third times the specified roof snow load for 1 h.

**Table 9.23.13.11.****Maximum Roof Truss Deflections**

Forming Part of Sentence 9.23.13.11.(1)

Truss Span	Type of Ceiling	Maximum Deflection
4.3 m or less	Plaster or gypsum board	1/360 of the span
	Other than plaster or gypsum board	1/180 of the span
Over 4.3 m	Plaster or gypsum board	1/360 of the span
	Other than plaster or gypsum board	1/240 of the span
Column 1	2	3

(2) The joint connections used in trusses described in Sentence (1) shall be designed in conformance with the requirements in Subsection 4.3.1.

(3) Where the length of compression web members in roof trusses described in Sentence (1) exceeds 1 830 mm, such web members shall be provided with continuous bracing to prevent buckling.

(4) Bracing required in Sentence (3) shall consist of not less than 19 mm by 89 mm lumber nailed at right angles to the web members near their centres with at least two 63 mm nails for each member.

(5) Where the ability of a truss design to satisfy the requirements of Sentence (1) is demonstrated by testing, it shall consist of a full scale load test carried out in conformance with CSA S307-M, "Load Test Procedure for Wood Trusses for Houses and Small Buildings".

(6) Where the ability of a truss design to satisfy the requirements of Sentence (1) is demonstrated by analysis, it shall be carried out in accordance with good engineering practice such as described in "Truss Design Procedures and Specifications for Light Metal Plate Connected Wood Trusses," published by the Truss Plate Institute of Canada.

**9.23.14. Subflooring****9.23.14.1. Subflooring Required**

(1) Subflooring shall be provided beneath finish flooring where the finish flooring does not have adequate strength to support the design loads.

**9.23.14.2. Material Standards**

(1) Wood-based panels for subfloors shall conform to

- (a) CSA O121, "Douglas Fir Plywood",
- (b) CSA O151, "Canadian Softwood Plywood",
- (c) CSA O153, "Poplar Plywood",
- (d) CAN/CSA-O325.0, "Construction Sheathing", or
- (e) CSA-O437.0, "OSB and Waferboard".

(2) Particleboard subflooring may be used only where a *building* is constructed in a factory so that the subfloor will not be exposed to the weather.

(3) Subflooring described in Sentence (2) shall conform to grade N-1 or N-2 in CAN3-O188.1, "Interior Mat-Formed Wood Particle-board".

(4) Subflooring described in Sentence (2) shall have its upper surface and all edges treated to restrict water absorption where the subfloor is used in bathrooms, kitchens, laundry rooms and other areas subject to periodic wetting.

**9.23.14.3. Edge Support**

(1) Where the edges of panel-type subflooring are required to be supported, such support shall consist of tongue-and-groove panel edges or not less than 38 mm by 38 mm blocking securely nailed between framing members.

**9.23.14.4. Direction of Installation**

(1) Plywood subflooring shall be installed with the surface grain at right angles to the joists and with joints parallel to floor joists staggered.

(2) OSB subflooring conforming to O-1 and O-2 grades in CSA-O437.0 and waferboard subflooring conforming to R-1 grade in CSA O437.0 shall be installed with the direction of face orientation at right angles to the joists and with the joints parallel to floor joists staggered.

**9.23.14.5. Subfloor Thickness or Rating**

(1) Except as provided in Sentences (2) and (3), subfloors shall conform to Table 9.23.14.5.A. or Table 9.23.14.5.B.

**Table 9.23.14.5.A.****Thickness of Subflooring**

Forming Part of Sentences 9.23.14.5.(1) and 9.23.15.6.(1)

Maximum Spacing of Supports, mm	Minimum Thickness, mm			
	Plywood and OSB, O-2 Grade	OSB, O-1 Grade, and Waferboard, R-1 Grade	Particleboard	Lumber
400	15.5	15.9	15.9	17.0
500	15.5	15.9	19.0	19.0
600	18.5	19.0	25.4	19.0
Column 1	2	3	4	5

**Table 9.23.14.5.B.****Rating for Subfloor when Applying CSA O325.0**

Forming Part of Sentences 9.23.14.5.(1) and 9.23.15.6.(1)

Maximum Spacing of Supports, mm	Panel Mark	
	Subfloor	Used with Panel-Type Underlay
400	1F16	2F16
500	1F20	2F20
600	1F24	2F24
Column 1	2	3

(2) Where the finished flooring consists of not less than 19 mm matched wood strip flooring laid at right angles to joists, spaced not more than 600 mm o.c., subflooring shall be permitted to consist of not less than

- (a) 12.5 mm thick plywood,
- (b) 12.5 mm thick OSB conforming to O-2 grade,
- (c) 12.7 mm thick OSB conforming to O-1 grade, or
- (d) 12.7 mm thick waferboard conforming to R-1 grade.

(3) Except where the flooring consists of ceramic tiles applied with adhesive, where a separate panel-type underlay or concrete topping is applied to a subfloor on joists spaced not more than 400 mm o.c., the subfloor may consist of not less than

- (a) 12.5 mm thick plywood,
- (b) 12.5 mm thick OSB conforming to O-2 grade,
- (c) 12.7 mm thick OSB conforming to O-1 grade, or
- (d) 12.7 mm thick waferboard conforming to R-1 grade.

#### 9.23.14.6. Annular Grooved Nails

(1) When resilient flooring is applied directly to an OSB, waferboard, particleboard or plywood subfloor, the subfloor shall be fastened to the supports with annular grooved nails.

#### 9.23.14.7. Lumber Subflooring

(1) Lumber subflooring shall be laid at an angle of not less than 45° to the joists.

(2) Lumber subflooring shall be fully supported at the ends on solid bearing.

(3) Lumber for subflooring shall be of uniform thickness and not more than 184 mm wide.

#### 9.23.15. Roof Sheathing

##### 9.23.15.1. Material Standards

(1) Wood-based panels used for roof sheathing shall conform to the requirements of

- (a) CSA O121, "Douglas Fir Plywood",
- (b) CSA O151, "Canadian Softwood Plywood",
- (c) CSA O153, "Poplar Plywood",

(d) CAN/CSA-O325.0, "Construction Sheathing", or

(e) CAN3-O437.0, "OSB and Waferboard".

##### 9.23.15.2. Direction of Installation

(1) Plywood roof sheathing shall be installed with the surface grain at right angles to the roof framing.

(2) OSB roof sheathing conforming to O-1 and O-2 grades as specified in CSA-O437.0, "OSB and Waferboard", shall be installed with the direction of face orientation at right angles to the roof framing members.

##### 9.23.15.3. Joints in Panel Type Sheathing

(1) Panel-type sheathing board shall be applied so that joints perpendicular to the roof ridge are staggered where

- (a) the sheathing is applied with the surface grain parallel to the roof ridge, and
- (b) the thickness of the sheathing is such that the edges are required to be supported.

(2) A gap of not less than 2 mm shall be left between sheets of plywood, OSB or waferboard.

##### 9.23.15.4. Lumber Roof Sheathing

(1) Lumber roof sheathing shall not be more than 286 mm wide and shall be applied so that all ends are supported with end joints staggered.

##### 9.23.15.5. Edge Support

(1) Except as permitted in Sentence (2), where panel-type roof sheathing requires edge support, the support shall consist of

- (a) metal H clips, or
- (b) not less than 38 mm by 38 mm blocking securely nailed between framing members.

(2) The supports referred to in Sentence (1) are not required when tongued-and-grooved edged panel-type sheathing board is used.

##### 9.23.15.6. Thickness or Rating

(1) The thickness or rating of roof sheathing on a flat roof used as a walking deck shall conform to either Table 9.23.14.5.A. or Table 9.23.14.5.B. for subfloors.

(2) The thickness or rating of roof sheathing on a roof not used as a walking deck shall conform to either Table 9.23.15.6.A. or Table 9.23.15.6.B.

Table 9.23.15.6.A.

**Thickness of Roof Sheathing**

Forming Part of Sentence 9.23.15.6.(2)

Maximum Spacing of Supports, mm	Minimum Thickness, mm				
	Plywood and OSB, O-2 Grade		OSB, O-1 Grade and Waferboard, R-1 Grade		Lumber
	Edges Supported	Edges Unsupported	Edges Supported	Edges Unsupported	
300	7.5	7.5	9.5	9.5	17.0
400	7.5	9.5	9.5	11.1	17.0
600	9.5	12.5	11.1	12.7	19.0
Column 1	2	3	4	5	6

Table 9.23.15.6.B.

**Rating for Roof Sheathing When Applying CSA O325.0**

Forming Part of Sentence 9.23.15.6.(2)

Maximum Spacing of Supports, mm	Panel Mark	
	Edges Supported	Edges Unsupported
400	2R16	1R16
500	2R20	1R20
600	2R24	1R24
Column 1	2	3

(3) Asphalt-coated or asphalt-impregnated fibreboard not less than 11.1 mm thick conforming to CSA A247-M, "Insulating Fibreboard" is permitted to be used as a roof sheathing over supports spaced not more than 400 mm o.c. provided the roofing consists of

(a) a continuous sheet of galvanized steel not less than 0.33 mm in thickness, or

(b) a continuous sheet of aluminum not less than 0.61 mm in thickness.

(4) All edges of sheathing described in Sentence (3) shall be supported by blocking or framing.

**9.23.16. Wall Sheathing****9.23.16.1. Required Sheathing**

(1) Exterior walls and gable ends shall be sheathed when the *exterior cladding* requires intermediate fastening between supports or if the *exterior cladding* requires solid backing.

**9.23.16.2. Thickness, Rating and Material Standards**

(1) Where wall sheathing is required, it shall conform to Table 9.23.16.2.A. or Table 9.23.16.2.B.

Table 9.23.16.2.A.

**Wall Sheathing Thickness and Specifications**

Forming Part of Article 9.23.16.2.(1)

Type of Sheathing	Minimum Thickness, mm		Material Standards
	With Supports 400 mm o.c.	With Supports 600 mm o.c.	
Fibreboard (insulating)	9.5	11.1	CAN/CSA-A247
Gypsum sheathing	9.5	12.7	CSA/CSA-A82.27-M ASTM C 97
Lumber	17.0	17.0	See Table 9.3.2.1.
Mineral Fibre, Rigid Board, Type 2	25	25	CSA A101-M
OSB, O-2 Grade	6.0	7.5	CSA O437
OSB, O-1 Grade, and waferboard, R-1 Grade	6.35	7.9	CSA O437
Phenolic, faced	25	25	CAN/CGSB-51.25-M
Plywood (exterior type)	6.0	7.5	CSA O121-M CSA O151-M CSA O153-M



Polystyrene expanded Types 1 and 2	38	38	CAN/CGSB-51.20-M
Polystyrene expanded Types 3 and 4	25	25	CAN/CGSB-51.20-M
Urethane and Isocyanurate Types 1, 2 and 4	38	38	CGSB 51-GP-21M
Urethane and Isocyanurate, Type 3	25	25	CGSB 51-GP-21M
Urethane and Isocyanurate Types 1 and 2 faced	25	25	CAN/CGSB-51.26-M
Column 1	2	3	4

**Note to Table 9.23.16.2.A.:**

(1) See also Sentences 9.27.5.1.(2) to (4).

**Table 9.23.16.2.B.****Rating For Wall Sheathing When Applying CSA O325.0**

Forming Part of Article 9.23.16.2.

Maximum Spacing of Supports, mm	Panel Mark
400	W16
500	W20
600	W24
Column 1	2

**9.23.16.3. Attachment of Cladding to Sheathing**

(1) Gypsum sheathing, rigid insulation and fibreboard shall not be used for the attachment of siding materials.

(2) Nails used in attaching the materials listed in Sentence (1) shall be not less than 3.2 mm diam with a minimum head diameter of 11 mm.

**9.23.16.4. Lumber Sheathing**

(1) Lumber wall sheathing shall be applied so that all ends are supported.

(2) Where lumber wall sheathing is required to provide bracing according to Article 9.23.10.2., it shall be applied with end joints staggered.

**9.23.16.5. Joints in Panel-Type Sheathing**

(1) A gap of not less than 2 mm shall be left between sheets of plywood, OSB, waferboard or fibreboard.

**9.23.16.6. Mansard Style Roofs**

(1) Where the bottom portions of mansard style roofs are vented, the vertical framing members behind the sloping portions shall be considered on the same basis as exterior wall studs and shall conform to the appropriate requirements in Subsection 9.23.17.

**9.23.17. Wall Sheathing Membrane****9.23.17.1. Material Standard**

(1) Sheathing paper shall conform to the performance requirements of CAN2-51.32-M, "Sheathing, Membrane, Breather Type".

**9.23.17.2. Sheathing Paper Beneath Stucco**

(1) Tar-saturated felts or papers shall not be used as a sheathing paper beneath stucco.

**9.23.17.3. Sheathing Membrane and Installation**

(1) Except as provided in Articles 9.23.17.4., 9.23.17.5. and 9.23.17.6., at least one layer of sheathing membrane shall be applied beneath siding, stucco or masonry veneer.

(2) Sheathing membrane required in Sentence (1) shall be applied so that joints are lapped not less than 100 mm.

(3) Where sheathing membrane required in Sentence (1) is applied horizontally, the upper sheets shall overlap the lower sheets.

**9.23.17.4. Insulating Sheathing in Lieu of Sheathing Membrane**

(1) Where non-wood based rigid exterior insulating sheathing, or exterior insulating sheathing with an integral sheathing membrane is installed, a separate sheathing membrane is not required.

(2) Where insulating sheathing is installed as provided in Sentence (1)

(a) sheathing panels subject to moisture deterioration shall be sealed at all joints, and

(b) the joints of sheathing panels not subject to moisture deterioration shall be

(i) sealed at all joints, or

(ii) lapped or tongue and groove, and detailed to ensure drainage of water to the exterior.

**9.23.17.5. Sheathing Membranes in Lieu of Sheathing**

(1) Except as provided in Article 9.23.17.6., where no sheathing is used, at least 2 layers of sheathing membrane shall be applied beneath the cladding.

(2) All joints in the sheathing membrane required in Sentence (1) shall occur over framing, and the membrane shall be fastened to the framing with roofing nails or staples spaced not more than 150 mm along the edges of the outer layer of sheathing paper.

(3) Wall sheathing is permitted to be used in lieu of 1 layer of sheathing membrane required in Sentence (1), and the thickness need not conform to Table 9.23.16.2.A.

**9.23.17.6. Face Sealed Cladding**

(1) Sheathing membrane is permitted to be omitted beneath cladding when the joints in the cladding are formed to effectively prevent the passage of wind and rain in conformance with Sentence (2) or (4) as applicable.

(2) Cladding consisting of sheets of plywood, hardboard, OSB, waferboard or asbestos cement is considered to meet the requirements of Sentence (1) provided the cladding is applied so that

(a) all edges are directly supported by framing, and

(b) the vertical joints between adjacent sheets are

(i) covered with battens,

(ii) shiplapped, or

(iii) otherwise matched to provide weathertight joints.

(3) Joints between sheets described in Sentence (2) shall be caulked.

(4) Metal siding consisting of sheets of metal is considered to meet the requirements of Sentence (1) where the joints between sheets are of the locked seam type.

**Section 9.24. Sheet Steel Stud Wall Framing****9.24.1. General****9.24.1.1. Application**

(1) This Section applies to sheet steel studs for use in non-loadbearing exterior and interior walls.

(2) Where loadbearing steel studs are used, they shall be designed in conformance with Part 4.

**9.24.1.2. Material Standards**

(1) Steel studs and runners shall conform to CAN/CGSB-7.1-M, "Cold Formed Steel Framing Components".

**9.24.1.3. Metal Thickness**

(1) Metal thickness specified in this Section shall be the minimum base steel thickness exclusive of coatings.

**9.24.1.4. Screws**

(1) Screws for the application of cladding, sheathing or interior finish materials to steel studs, runners and furring channels shall conform to ASTM C1002, "Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases".

**9.24.1.5. Cladding, Sheathing and Interior Finish Required**

(1) Cladding or sheathing, and interior finish shall be installed on steel stud framing and shall be fastened with screws

(a) spaced at the appropriate spacing described in Section 9.29., and

(b) penetrating not less than 10 mm through the metal.

**9.24.2. Size of Framing****9.24.2.1. Size and Spacing of Studs in Interior Walls**

(1) Except as required in Articles 9.24.2.3. and 9.24.2.4., the size and spacing of steel studs for non-loadbearing interior walls shall conform to Table 9.24.2.1.

**Table 9.24.2.1.****Steel Studs for Non-Loadbearing Interior Walls**

Forming Part of Sentence 9.24.2.1.(1)

Minimum Stud Size, mm	Maximum Stud Spacing, mm	Maximum Wall Height, m
30 x 40	400 600	3.0 2.7
30 x 63	400 600	4.0 3.6
30 x 91	400 600	5.2 4.9
Column 1	2	3

**9.24.2.2. Thickness of Studs**

(1) Except as required in Article 9.24.2.4., steel studs in non-loadbearing interior walls shall have a metal thickness of not less than 0.46 mm.

**9.24.2.3. Runners**

(1) Runners for interior and exterior non-loadbearing walls shall have a thickness of not less than the thickness of the corresponding studs and shall have not less than 30 mm flanges.

**9.24.2.4. Openings in Fire Separations**

(1) Where openings for doors in non-loadbearing fire separations required to have a fire-resistance rating do not exceed 1 200 mm in width

(a) the width of steel studs shall be not less than 63 mm, and

(b) the steel thickness shall be not less than 0.46 mm.

(2) Where openings described in Sentence (1) exceed 1 200 mm in width

(a) the width of steel studs shall be not less than 91 mm, and

(b) the metal thickness shall be not less than 0.85 mm.

(3) The distance to the first stud beyond the jamb of any door opening in a fire separation required to have a fire-resistance rating shall not exceed 400 mm.

(4) Where the distance between the framing over the opening referred to in Sentence (1) and the top runner exceeds 400 mm in such walls, intermediate support shall be installed at intervals of not more than 400 mm above the opening.

**9.24.2.5. Size and Spacing of Studs in Exterior Walls**

(1) The size and spacing of non-loadbearing steel studs for exterior walls shall conform to Table 9.24.2.5.

Table 9.24.2.5.

**Size and Spacing of Steel Studs for  
Non-Loadbearing Exterior Walls**

Forming Part of Sentence 9.24.2.5.(1)

Minimum Stud Size, mm	Minimum Metal Thickness, mm	Maximum Stud Length, m		
		Spacing of Studs		
		300 mm (o.c.)	400 mm (o.c.)	600 mm (o.c.)
30 x 91	0.53	3.0	2.4	—
30 x 91	0.69	3.3	2.7	2.4
30 x 91	0.85	3.6	3.0	2.7
30 x 91	1.0	4.0	3.3	3.0
Column 1	2	3	4	5

### 9.24.3. Installation

#### 9.24.3.1. Installation of Runners

(1) Runners shall be provided at the tops and bottoms of walls.

(2) Runners required in Sentence (1) shall be securely attached to the *building* at approximately 50 mm from the ends, and at intervals of not more than 600 mm o.c. for interior walls and 300 mm o.c. for exterior walls.

(3) Fasteners used for attachment described in Sentence (2) shall consist of the equivalent of 63 mm nails or 25 mm screws.

(4) Studs at openings and which are not full wall height shall be supported by a runner at the ends of the studs, securely fastened to the full length studs at the sides of the opening.

#### 9.24.3.2. Fire-Rated Walls

(1) Steel studs used in walls required to have a *fire-resistance rating* shall be installed so that there is not less than a 12 mm clearance between the top of the stud and the top of the runner to allow for expansion in the event of fire.

(2) Except as provided in Article 9.24.3.6., studs in walls referred to in Sentence (1) shall not be attached to the runners in a manner that will prevent such expansion.

(3) Framing above doors with steel door frames in non-loadbearing *fire separations* required to have a *fire-resistance rating* shall consist of 2 runners on the flat fastened back to back.

(4) The lower runner required in Sentence (3) shall be cut through the flanges and be bent at each end to extend upwards at least 150 mm and fastened to the adjacent studs.

#### 9.24.3.3. Orientation of Studs

(1) Steel studs shall be installed with webs at right angles to the wall face and, except at openings, shall be continuous for the full wall height.

#### 9.24.3.4. Support for Cladding Materials

(1) Corners and intersections of walls shall be constructed to provide support for the cladding materials.

### 9.24.3.5. Framing around Openings

(1) Studs shall be doubled on each side of every opening where such openings involve more than 1 stud space, and shall be tripled where the openings in exterior walls exceed 2.4 m in width.

(2) Studs described in Sentence (1) shall be fastened together by screws, crimping or welding to act as a single structural unit in resisting transverse loads.

### 9.24.3.6. Attachment of Studs to Runners

(1) Studs shall be attached to runners by screws, crimping or welding around wall openings, and elsewhere where necessary to keep the studs in alignment during construction.

(2) Where clearance for expansion is required in Article 9.24.3.2., attachment required in Sentence (1) shall be applied between studs and bottom runners only.

### 9.24.3.7. Openings for Fire Dampers

(1) Openings for *fire dampers* in non-loadbearing *fire separations* required to have a *fire-resistance rating* shall be framed with double studs on each side of the opening.

(2) The sill and header for openings described in Sentence (1) shall consist of a runner track with right angle bends made on each end so as to extend 300 mm above the header or below the sill and fastened to the studs.

(3) The openings described in Sentence (1) shall be lined with a layer of gypsum board at least 12.7 mm thick fastened to stud and runner webs.

## Section 9.25. Heat Transfer, Air Leakage and Condensation Control

### 9.25.1. Scope

#### 9.25.1.1. Application

(1) This Section applies to the application of thermal insulation and measures to control condensation, heat transfer and air leakage for *buildings of residential occupancy* intended for use on a continuing basis during the winter months.

(2) Insulation and sealing of heating and ventilating ducts shall conform to Sections 9.32. and 9.33.

#### 9.25.1.2. General

(1) Except as provided in Sentence (2), any sheet or panel type material with an air leakage characteristic less than 0.1 l/(s•m<sup>2</sup>) at 75 Pa and water vapour permeance less than 60 ng/(Pa•s•m<sup>2</sup>) and incorporated in a *building assembly* required by Article 9.25.2.1. to be insulated shall be installed

(a) on the warm face of the assembly,

(b) at a location where the ratio between the total thermal resistance of all materials outboard of its innermost impermeable surface and the total thermal resistance of all materials inboard of that surface is not less than required in Table 9.25.1.2., or

(c) outboard of an air space that is vented to the outdoors and, for walls, drained.



**Table 9.25.1.2.****Ratio of Outboard to Inboard Thermal Resistance**

Forming Part of Sentence 9.25.1.2.(1)

Heating Degree Days of <i>Building Location</i> <sup>(1)</sup> , Celsius degree-days	Minimum Ratio, Total Thermal Resistance Outboard of material's Inner Surface to Total Thermal Resistance Inboard of Material's Inner Surface
up to 4999	0.20
5000 to 5999	0.30
6000 to 6999	0.35
7000 to 7999	0.40
8000 to 8999	0.50
9000 to 9999	0.55
10000 to 10999	0.60
11000 to 11999	0.65
12000 or higher	0.75
Column 1	2

**Note to Table 9.25.1.2.:**<sup>(1)</sup> See Sentence 2.2.1.1.(1).

(2) Sheathing materials installed so that, in each framing space, at least one of the gaps required by Article 9.23.15.3. and Sentence

9.23.16.5.(1) does not occur over framing need not comply with Sentence (1).

**9.25.1.3. Thermal Design**

(1) The requirements for thermal insulation in this Section need not be met where thermal design is provided in accordance with Section 9.38.

**9.25.2. Thermal Insulation****9.25.2.1. Required Insulation**

(1) All walls, ceilings and floors separating heated space from unheated space, the exterior air or the exterior *soil* shall be provided with sufficient thermal insulation to prevent moisture condensation on their room side during the winter and to ensure comfortable conditions for the occupants.

(2) Insulation shall be provided between heated and unheated spaces and between heated spaces and the exterior, and around the perimeter of concrete slabs-on-ground.

(3) Reflective surfaces of insulating materials shall not be considered in calculating the thermal resistance of *building assemblies*.

(4) Except as permitted in Sentences (5), (6), (7), (8), (13) and (14) the minimum thermal resistance of insulation shall conform to Table 9.25.2.1.

**Table 9.25.2.1.****Minimum Thermal Resistance of Insulation to be Installed based on Degree Day Zones<sup>(1)</sup>**

Forming Part of Sentence 9.25.2.2.(4)

<i>Building Element Exposed to the Exterior or to Unheated Space</i>	RSI Value Required		
	Zone 1 Less than 5000	Zone 2 5000 or more	<i>Electric Space Heating Zone 1 &amp; 2</i>
Ceiling below <i>attic or roof space</i>	5.40	6.70	7.00
Roof assembly without <i>attic or roof space</i>	3.52	3.52	3.87
Wall other than <i>foundation wall</i>	3.00	3.87	4.70
<i>Foundation</i> walls enclosing heated space	1.41	2.11	3.25
Floor, other than slab-on-ground	4.40	4.40	4.40
Slab-on ground containing pipes or heating ducts	1.76	1.76	1.76
Slab-on-ground not containing pipes or heating ducts	1.41	1.41	1.41
Column 1	2	3	4

**Note to Table 9.25.2.1.:**<sup>(1)</sup> Number of degree days for individual locations are contained in Table 2.5.1.1.

(5) Except for doors on enclosed unheated vestibules and cold cellars, and except for glazed portions of doors, all doors separating heated space from unheated space shall have a thermal resistance of not less than RSI 0.7 where a storm door is not provided.

(6) All sliding glass doors separating heated space from unheated space shall have a thermal resistance of not less than 0.30 m<sup>2</sup>°C/W.

(7) All glazing that separates heated space from unheated space shall have a thermal resistance of not less than 0.30 m<sup>2</sup>°C/W.

(8) The thermal resistance values in Table 9.25.2.1.A. for exposed roofs or ceilings may be reduced near eaves to the extent made necessary by the roof slope and required ventilation clearances, except that the thermal resistance of insulation at the location directly above the inner surface of the exterior wall shall be at least RSI 2.1.

(9) Where an enclosed unheated space is separated from a heated space by glazing, the unheated enclosure may be considered to provide a thermal resistance of 0.16 m<sup>2</sup>°C/W.

(10) When *electric space heating* is used in a category TIL3 dwelling unit, all sliding glass doors separating heated space from

unheated space or the outdoors shall have an energy rating of not less than -13 ER.

(11) When *electric space heating* is used in a category TIL3 dwelling unit, all glazing that separates heated space from unheated space or the outdoors shall have an energy rating of not less than -13 ER for openable windows and 0 ER for fixed glazing.

(12) The energy rating required in Sentences (10) and (11) shall be determined in conformance with CAN/CSA-A440.2-M, "Energy Performance Evaluation of Windows and Sliding Glass Doors".

(13) Log wall construction and post, beam and plank construction shall have a minimum thermal resistance of RSI 2.1 for the total assembly.

(14) The thermal resistance value in Sentence (13) for the total wall assembly may be reduced to not less than RSI 1.61, provided that

- (a) the thermal resistance of insulation for exposed roof or ceiling required in Table 9.25.2.1.A. shall be increased by an amount equivalent to the reduction permitted in this Sentence, and
- (b) for log walls, the logs are machined squared having tongue-and-groove or splined joints.

#### 9.25.2.3. Insulation Materials

(1) Except as required in Sentence (2), thermal insulation shall conform to the requirements of

- (a) CAN/CGSB-51.20-M, "Thermal Insulation, Polystyrene, Boards and Pipe Covering",
- (b) CGSB 51-GP-21M, "Thermal Insulation, Urethane and Isocyanurate, Unfaced",
- (c) CAN/CGSB-51.23, "Spray Applied Rigid Polyurethane Cellular Plastic Thermal insulation",
- (d) CAN/CGSB-51.25-M, "Thermal Insulation, Phenolic, Faced",
- (e) CAN/CGSB-51.26-M, "Thermal Insulation, Urethane and Isocyanurate, Board, Faced",
- (f) CAN/CGSB-51-GP-27M, "Thermal Insulation, Polystyrene, Loose Fill",
- (g) CGSB 51-GP-60M, "Thermal Insulation, Cellulose Fibre, Loose Fill",
- (h) CSA A101, "Thermal Insulation, Mineral Fibre, for Buildings", or
- (i) CAN/CSA-A247-M, "Insulating Fibreboard".

(2) The *flame-spread ratings* requirements contained in the standards listed in Sentence (1) shall not apply.

(3) Insulation in contact with the ground shall be inert to the action of *soil* and water and be such that its insulative properties are not significantly reduced by moisture.

(4) Type 1 expanded polystyrene insulation as described in CAN/CGSB-51.20-M, "Thermal Insulation, Polystyrene, Boards and Pipe Covering" shall not be used in contact with the ground or as roof insulation applied above the roofing membrane.

#### 9.25.2.4. Installation of Thermal Insulation

(1) Insulation shall be installed so that there is a reasonably uniform insulating value over the entire face of the insulated area.

(2) Insulation shall be applied to the full width and length of the space between furring or framing.

(3) Except where the insulation provides the principal resistance to air leakage, thermal insulation shall be installed so that at least 1 face is in full and continuous contact with an element with low air permeance.

(4) Insulation on the interior of *foundation* walls enclosing a crawl space shall be applied so that there is not less than a 50 mm clearance above the crawl space floor if the insulation is of a type that may be damaged by water.

(5) Insulation around concrete slabs-on-ground shall be located so that heat from the *building* is not restricted from reaching the ground beneath the perimeter, where exterior walls are not supported by footings extending below frost level.

(6) Where insulation is exposed to the weather and subject to mechanical damage, it shall be protected with not less than

- (a) 6 mm asbestos-cement board,
- (b) 6 mm preservative-treated plywood, or
- (c) 12 mm cement parging on wire lath applied to the exposed face and edge.

(7) Except as permitted in Sentence (9) insulation and vapour barrier shall be protected from mechanical damage by a covering of gypsum board, plywood, particleboard, waferboard or hardboard.

(8) In unfinished *basements*, the protection required in Sentence (7) need not be provided for mineral fibre insulation provided it is covered with polyethylene vapour barrier of at least 0.15 mm in thickness.

(9) Insulation in factory-built *buildings* shall be installed so that it will not become dislodged during transportation.

(10) Insulation applied to the interior of *foundation* walls enclosing heated space shall extend from the underside of the subfloor to not less than 600 mm below the adjacent exterior ground level.

(11) The insulation required by Sentence (10) may be provided by a system installed

- (a) on the interior of the *foundation* wall,
- (b) on the exterior face of the *foundation* wall, or
- (c) partially on the interior and partially on the exterior, provided the thermal performance of the system is equivalent to that permitted in Clauses (a) or (b).

(13) If a *foundation* wall is constructed of hollow masonry units, one or more of the following shall be used to control convection currents in the core spaces

- (a) filling the core spaces,
- (b) at least one row of semi-solid blocks at or below *grade*, or
- (c) other similar methods.

(14) Masonry walls of hollow units which penetrate the ceiling shall be sealed at or near the ceiling adjacent to the roof space to prevent air within the voids from entering the *attic* or *roof space* by

- (a) capping with masonry units without voids, or
- (b) installation of flashing material extending across the full width of the masonry.

#### 9.25.2.5. Installation of Loose-Fill Insulation

(1) Except as provided in Sentences (2) to (6), loose-fill insulation shall be used on horizontal surfaces only.

(2) Loose-fill insulation is permitted to be installed in attic spaces over ceilings sloped not more than 2.5 in 12.

(3) Loose-fill insulation may be used in wood-frame walls of existing *buildings*.

(4) Water repellent loose-fill insulation may be used between the outer and inner wythes of masonry cavity walls.

(5) Where soffit venting is used, measures shall be taken

- (a) to prevent loose-fill insulation from blocking the soffit vents and to maintain an open path for circulation of air from the vents into the *attic or roof space*, and
- (b) to minimize air flow into the loose-fill insulation near the soffit vents to maintain the thermal performance of the material.

#### 9.25.2.6. Installation of Spray-applied Polyurethane

(1) Spray-applied polyurethane insulation shall be installed in accordance with CAN/CGSB-51.39, "Sprayed Application of Rigid Polyurethane Cellular Plastic Thermal Insulation for Building Construction".

### 9.25.3. Air Barrier Systems

#### 9.25.3.1. Required Barrier to Air Leakage

(1) Thermally insulated wall, ceiling and floor assemblies shall be constructed so as to include an *air barrier system* which will provide a continuous barrier to air leakage

- (a) from the interior of the *building* into wall, floor, *attic or roof spaces* sufficient to prevent excessive moisture condensation in such spaces during the winter, and
- (b) from the exterior inward sufficient to prevent moisture condensation on the room side during winter.

#### 9.25.3.2. Air Barrier System Properties

(1) Sheet and panel type materials intended to provide the principal resistance to air leakage shall have an air leakage characteristic not greater than  $0.02 \text{ L}/(\text{s}\cdot\text{m}^2)$  measured at an air pressure differential of 75 Pa.

(2) Where polyethylene sheet used to provide the air-tightness in the *air barrier system* shall conform to CAN/CGSB-51.34-M, "Vapour Barrier, Polyethylene Sheet for Use in Building Construction".

#### 9.25.3.3. Continuity of the Air Barrier System

(1) Where the *air barrier system* consists of an air-impermeable panel-type material, all joints shall be sealed to prevent air leakage.

(2) Where the *air barrier system* consists of flexible sheet material, all joints shall be

(a) sealed, or

(b) lapped not less than 100 mm and clamped, such as between framing members, furring or blocking and rigid panels.

(3) Where an interior wall meets an exterior wall, ceiling, floor or roof required to be provided with an air barrier protection, the *air barrier system* shall extend across the intersection.

(4) Where an interior wall projects through a ceiling or extends to become an exterior wall, spaces in the wall shall be blocked to provide continuity across those spaces with the *air barrier system* in the abutting walls or ceiling.

(5) Where an interior floor projects through an exterior wall or extends to become an exterior floor, continuity of the *air barrier system* shall be maintained from the abutting walls across the floor assembly.

(6) Penetrations of the *air barrier system*, such as those created by the installation of doors, windows, electrical wiring, electrical boxes, piping or ductwork, shall be sealed to maintain the integrity of the *air barrier system* over the entire surface.

(7) Access hatches installed through assemblies constructed with an *air barrier system* shall be weatherstripped around their perimeters to prevent air leakage.

(8) Clearances between *chimneys* or *gas vents* and the surrounding construction which would permit air leakage from within the *building* into a wall or *attic or roof space* shall be sealed by *noncombustible* material to prevent such leakage.

### 9.25.4. Vapour Barriers

#### 9.25.4.1. Required Barrier to Vapour Diffusion

(1) Thermally insulated wall, ceiling and floor assemblies shall be constructed with a vapour barrier sufficient to prevent condensation in the wall spaces, floor spaces or *attic or roof spaces*.

#### 9.25.4.2. Vapour Barrier Materials

(1) Except as required in Sentence (2), *vapour barriers* shall have an initial permeance not greater than  $45 \text{ ng}/(\text{Pa}\cdot\text{s}\cdot\text{m}^2)$ .

(2) When used where a high resistance to vapour movement is required, such as in wall constructions that incorporate exterior cladding or sheathing having a low water vapour permeance, *vapour barriers* shall have a permeance not greater than  $15 \text{ ng}/(\text{Pa}\cdot\text{s}\cdot\text{m}^2)$ .

(3) Where polyethylene is installed as the *vapour barrier* required in Sentence (2), it shall conform to CAN/CGSB-51.34-M, "Vapour Barrier, Polyethylene Sheet for Use in Building Construction".

(4) Membrane-type *vapour barriers* other than polyethylene shall conform to CAN/CSA-51.33-M, "Vapour Barrier, Sheet, Excluding Polyethylene, for Use in Building Construction".

(5) Where a coating is applied to gypsum board to function as the *vapour barrier*, the permeance of the coating shall be determined in accordance with CAN/CGSB-1.501-M, "Method for Permeance of Coated Wallboard".

#### 9.25.4.3. Installation of Vapour Barriers

(1) *Vapour barriers* shall be installed to protect the entire surfaces of thermally insulated wall, ceiling and floor assemblies.

(2) *Vapour barriers* shall be installed sufficiently close to the warm side of insulation to prevent condensation at design conditions.



**Section 9.26. Roofing****9.26.1. General****9.26.1.1. Purpose of Roofing**

(1) Roofs shall be protected with roofing, including flashing, installed to shed rain effectively and prevent water due to ice damming from entering the roof.

**9.26.1.2. Alternate Installation Methods**

(1) Methods described in CAN3-A123.51, "Asphalt Shingle Application on Roof Slopes 1:3 and Steeper", or CAN3-A123.52, "Asphalt Shingle Application on Roof Slopes 1:6 to Less than 1:3" are permitted to be used for asphalt shingle applications not described in this Section.

**9.26.2. Roofing Materials****9.26.2.1. Material Standards**

- (1) Roofing materials shall conform to
  - (a) CAN/CGSB-37.4-M, "Fibrated, Cutback Asphalt, Lap Cement for Asphalt Roofing",
  - (b) CAN/CGSB-37.5-M, "Cutback Asphalt Plastic, Cement",
  - (c) CSA/CGSB 37.8M, "Asphalt, Cutback, Filled, for Roof Coating",
  - (d) CGSB 37-GP-9Ma, "Primer, Asphalt for Asphalt Roofing, Dampproofing and Waterproofing",
  - (e) CGSB 37-GP-21M, "Tar, Cutback, Fibrated, for Roof Coating",
  - (f) CAN/CGSB 37.50-M, "Asphalt, Rubberized, Hot Applied for Roofing and Waterproofing",
  - (g) CGSB 37-GP-52M, "Roofing and Waterproofing Membrane, Sheet Applied, Elastomeric",
  - (h) CGSB 37-GP-54M, "Roofing and Waterproofing Membrane, Sheet Applied, Flexible, Polyvinyl Chloride",
  - (i) CGSB 37-GP-56M, "Membrane, Modified, Bituminous, Prefabricated, and Reinforced for Roofing",
  - (j) CGSB 41-GP-6M, "Sheets, Thermosetting Polyester Plastics, Glass Fiber Reinforced",
  - (k) CAN2-51.32-M, "Sheathing, Membrane, Breather Type",
  - (l) CSA A123.1-M, "Asphalt Shingles Surfaced with Mineral Granules",

- (m) CSA A123.2-M, "Asphalt Coated Roofing Sheets",
- (n) CSA A123.3-M, "Asphalt or Tar Saturated Roofing Felt",
- (o) CSA A123.4-M, "Bitumen for Use in Construction of Built-Up Roof Coverings and Dampproofing and Waterproofing Systems",
- (p) CAN/CSA A123.5-M, "Asphalt Shingles Made from Glass Felt and Saturated with Mineral Granules",
- (q) CAN/CSA A123.17, "Asphalt-Saturated Felted Glass-Fibre Mat for Use in Construction of Built-Up Roofs",
- (r) CAN/CSA-A220.0, "Performance of Concrete Roof Tiles",
- (s) CSA O118.1-M, "Western Red Cedar Shingles and Shakes", or
- (t) CSA O118.2-M, "Eastern White Cedar Shingles".

**9.26.2.2. Nails**

(1) Nails used for roofing shall be corrosion-resistant roofing or shingle nails conforming to CSA B111, "Wire Nails, Spikes and Staples".

(2) Nails shall have sufficient length to penetrate through or 12 mm into roof sheathing.

(3) Nails used with asphalt roofing shall have a head diameter of not less than 9.5 mm and a shank thickness of not less than 2.95 mm.

(4) Nails used with wood shingles or shakes shall have a head diameter of not less than 4.8 mm and a shank thickness of not less than 2.0 mm and shall be stainless steel, aluminum or hot-dipped galvanized.

**9.26.2.3. Staples**

(1) Staples used to apply asphalt or wood shingles shall be corrosion-resistant and shall be driven with the crown parallel to the eaves.

(2) Staples used with asphalt shingles shall be not less than 19 mm long, 1.6 mm diam or thickness, with not less than a 25 mm crown, except that an 11 mm crown may be used as provided in Sentence 9.26.7.4.(2).

(3) Staples used with wood shingles shall be not less than 29 mm long, 1.6 mm diam or thickness, with not less than a 9.5 mm crown and shall be stainless steel or aluminum.

**9.26.3. Roof Slope****9.26.3.1. Slope**

(1) Except as provided in Sentences (2) and (3), the roof slopes on which roof coverings may be applied shall conform to Table 9.26.3.1.

Table 9.26.3.1.

**Roofing Types and Slope Limits**

Forming Part of Sentence 9.26.3.1.(1)

Type of Roofing	Minimum Slope	Maximum Slope
Built-up Roofing		
Asphalt base (gravelled)	1 in 50 <sup>(1)</sup>	1 in 4
Asphalt base (without gravel)	1 in 25	1 in 2
Coal-tar base (gravelled)	1 in 50 <sup>(1)</sup>	1 in 25
Cold process	1 in 25	1 in 1.33
Asphalt Shingles		
Normal application	1 in 3	no limit
Low slope application	1 in 6	no limit
Roll Roofing		
Smooth and mineral surfaced	1 in 4	no limit
480 mm wide selvage asphalt roofing	1 in 6	no limit
Cold application felt	1 in 50	1 in 1.33
Wood Shingles	1 in 4	no limit
Handsplit Shakes	1 in 3	no limit
Asbestos-Cement Corrugated sheets	1 in 4	no limit
Corrugated Metal roofing	1 in 4	no limit
Sheet Metal shingles	1 in 4	no limit
Slate shingles	1 in 2	no limit
Clay Tile	1 in 2	no limit
Glass Fibre Reinforced polyester Roofing Panels	1 in 4	no limit
Column 1	2	3

**Note to Table 9.26.3.1.:**<sup>(1)</sup> See Sentences 9.26.3.1.(2) and (3).

(2) Asphalt and gravel or coal tar and gravel roofs may be constructed with lower slopes than required in Sentence (1) when effective drainage is provided by roof drains located at the lowest points on the roofs.

(3) Sheet metal roof cladding systems specifically designed for low-slope applications are permitted to be installed with lower slopes than required in Sentence (1).

**9.26.4. Flashing at Intersections****9.26.4.1. Materials**

(1) Sheet metal flashing shall consist of not less than

- (a) 1.73 mm thick sheet lead,
- (b) 0.33 mm thick galvanized steel,
- (c) 0.46 mm thick copper,
- (d) 0.46 mm thick zinc, or
- (e) 0.48 mm thick aluminum.

**9.26.4.2. Valley Flashing**

(1) Where sloping surfaces of shingled roofs intersect to form a valley, the valley shall be flashed.

(2) Closed valleys shall not be used with rigid shingles on slopes of less than 1 in 1.2.

(3) Closed valley flashing shall consist of sheet metal, self sealing composite membranes consisting of polyethylene and bituminous material or one layer of either Type S smooth surface roll roofing or Type M mineral surface roll roofing (mineral surface down) not less than 600 mm wide, and nails shall not penetrate the flashing within 75 mm of its edge or 124 mm of the bottom of the valley centreline.

(4) Open valleys shall be flashed with not less than

- (a) one layer of sheet metal not less than 600 mm wide, or
- (b) 2 layers of roll roofing.

(5) The bottom layer of roofing required in Sentence (4) shall consist of not less than Type S smooth roll roofing or Type M mineral surface roll roofing (mineral surface down) not less than 457 mm wide, centred in the valley and fastened with nails spaced not more than 450 mm o.c. located 25 mm away from the edges.

(6) The top layer of roofing required in Sentence (4) shall consist of not less than Type M mineral surface roll roofing (mineral surface up), 914 mm wide, centred in the valley, applied over a 100 mm wide strip of cement along each edge of the bottom layer, and fastened with a sufficient number of nails to hold it in place until the shingles are applied.

**9.26.4.3. Intersection of Shingle Roofs and Masonry**

(1) The intersection of shingle roofs and masonry walls or *chimneys* shall be protected with flashing.

(2) Counter flashing required in Sentence (1) shall be embedded not less than 25 mm in the masonry and shall extend not less than 150 mm down the masonry and lap the lower flashing not less than 100 mm.

(3) Flashing along the slopes of a roof described in Sentence (1) shall be stepped so that there is not less than a 75 mm head lap in both the lower flashing and counter flashing.

(4) Where the roof described in Sentence (1) slopes upwards from the masonry, the flashing shall extend up the roof slope to a point equal in height to the flashing on the masonry, but not less than 1.5 times the shingle exposure.

**9.26.4.4. Intersection of Shingle Roofs and Walls Other Than Masonry**

(1) The intersection of shingle roofs and walls clad with other than masonry shall be protected with flashing.

(2) Flashing required in Sentence (1) shall be installed so that it extends up the wall not less than 75 mm behind the sheathing paper, and extends not less than 75 mm horizontally.

(3) Along the slope of the roof, the flashing required in Sentence (1) shall be stepped with not less than a 75 mm head lap.

**9.26.4.5. Intersection of Built-Up Roofs and Masonry**

(1) The intersection of built-up roofs with masonry walls or *chimneys* shall have a cant strip at the intersection and a roofing membrane shall be mopped over the cant strip and not less than 150 mm up the wall.

(2) Counter flashing installed over the intersection referred to in Sentence (1) shall be embedded not less than 25 mm in the masonry, and shall be of sufficient length to extend down not less than 150 mm, lapping the membrane on the masonry not less than 100 mm.

**9.26.4.6. Intersection of Built-Up Roofs and Walls other than Masonry**

(1) The intersection of built-up roofs with walls clad with other than masonry shall have a cant strip at the intersection.

(2) The roofing membrane shall be mopped over the cant strip referred to in Sentence (1).

(3) Flashing plies shall extend not less than 150 mm up the wall referred to in Sentence (1) behind the sheathing paper.

**9.26.4.7. Chimney Saddles**

(1) Except as otherwise permitted in Sentence (5), *chimney* saddles shall be installed where the upper side of a *chimney* on a sloping roof is more than 750 mm wide.

(2) *Chimney* saddles shall be covered with sheet metal or roofing material of equivalent weight and quality equivalent to the roofing.

(3) Saddles shall be flashed where they intersect the roof.

(4) The intersection of the saddle and the *chimney* shall be flashed and counterflashed as in Article 9.26.4.3.

(5) A *chimney* saddle need not be installed if the intersection between the *chimney* and roof is protected by sheet metal flashing that extends up the *chimney* to a height equal to at least one sixth the width of the *chimney*, but not less than 150 mm, and up the roof slope to a point equal in height to the flashing on the *chimney*, but not less than 1.5 times the shingle exposure.

(6) Flashing described in Sentence (5) at the *chimney* shall be counterflashed as required by Article 9.26.4.3.

**9.26.5. Eave Protection for Shingles and Shakes****9.26.5.1. Required Eave Protection**

(1) Except as provided in Sentence (2), eave protection shall be provided on shingle, shake or tile roofs, extending from the edge of the roof a minimum of 900 mm up the roof slope to a line not less than 300 mm inside the inner face of the exterior wall.

(2) Eave protection is not required

(a) over unheated garages, carports and porches,

(b) where the roof overhang exceeds 900 mm measured along the roof slope from the edge of the roof to the inner face of the exterior wall,

(c) on roofs of asphalt shingles installed in accordance with Subsection 9.26.8.,

(d) on roofs with slopes of 1 in 1.5 or greater, or

(e) in regions with 3 500 or fewer degree-days.

**9.26.5.2. Materials**

(1) Eave protection shall be laid beneath the starter strip and shall consist of

(a) No. 15 asphalt-saturated felt laid in two plies lapped 480 mm and cemented together with lap cement,

(b) Type M or S roll roofing laid with not less than 100 mm head and end laps cemented together with lap cement,

(c) glass fibre or polyester fibre coated base sheets, or

(d) self-sealing composite membranes consisting of modified bituminous coated material.

**9.26.6. Underlay Beneath Shingles****9.26.6.1. Materials**

(1) Except as required in Sentence (2), when underlay is used beneath shingles, it shall be

(a) asphalt-saturated sheathing paper weighing not less than 0.195 kg/m<sup>2</sup>, or

(b) No. 15 plain or perforated asphalt-saturated felt.

(2) Underlay used beneath wood shingles shall be breather type.

**9.26.6.2. Installation**

(1) When used with shingles, underlay shall be installed parallel to the eaves with head and end lap of not less than 50 mm.

(2) The top edge of each strip referred to in Sentence (1) shall be fastened with sufficient roofing nails to hold it in place until the shingles are applied.

(3) The underlay referred to in Sentence (1) shall overlap the eave protection by not less than 100 mm.

**9.26.7. Asphalt Shingles on Slopes of 1 in 3 or Greater****9.26.7.1. Coverage**

(1) Coverage shall be not less than 2 thicknesses of shingle over the entire roof, disregarding cutouts.

**9.26.7.2. Starter Strip**

(1) A starter strip shall be installed along the lower edge of the roof so that it extends approximately 12 mm beyond the eaves and rake of the roof and fastened along the bottom edge with nails spaced not more than 300 mm o.c.

(2) Starter strips shall be at least Type M mineral-surfaced roll roofing not less than 300 mm wide, or shingles of the same weight and quality as those used as a roof covering with tabs facing up the roof slope.

(3) Starter strips need not be provided where eave protection of not less than Type M mineral-surfaced roll roofing is provided or self-sealing composite membranes consisting of polyethylene and bituminous material is provided.

**9.26.7.3. Head Lap**

(1) Shingles shall have a head lap of not less than 50 mm.



**9.26.7.4. Fasteners**

(1) Except as provided in Sentence (2), shingles shall be fastened with at least 4 nails or staples for 1 000 mm wide shingles so that no nails or staples are exposed.

(2) Where staples with an 11 mm crown are used, shingles shall be fastened with at least 6 staples.

(3) Fasteners may be reduced for narrower shingles in proportion to the width of the shingle or when shingles incorporating interlocking devices are used.

(4) Fasteners referred to in Sentences (1) and (2) shall be located 25 mm to 40 mm from each end of each strip shingle with other fasteners equally spaced between them.

(5) Fasteners referred to in Sentences (1) and (2) shall be located not less than 12 mm above the tops of the cutouts.

**9.26.7.5. Securing of Tabs**

(1) Shingle tabs shall be secured by a spot of plastic cement not exceeding 25 mm diam under the centre of each tab or by interlocking devices or self-sealing strips.

**9.26.7.6. Hips and Ridges**

(1) Shingles on hips and ridges shall be applied so they extend not less than 100 mm on either side of the hip or ridge, and shall be lapped not less than 150 mm.

(2) Shingles referred to in Sentence (1) shall be fastened with nails or staples on each side located not more than 25 mm from the edge and 25 mm above the butt of the overlying shingle.

**9.26.7.7. Eave Protection**

(1) Eave protection shall conform to Subsection 9.26.5.

**9.26.7.8. Flashing**

(1) Flashing shall conform to Subsection 9.26.4.

**9.26.8. Asphalt Shingles on Slopes of Less Than 1 in 3****9.26.8.1. Coverage**

(1) Except for the first 2 courses, coverage shall be not less than 3 thicknesses of shingle over the entire roof, disregarding cutouts.

**9.26.8.2. Starter Strip**

(1) A starter strip shall be installed as in Article 9.26.7.2.

(2) Starter strips required in Sentence (1) shall be laid in a continuous band of cement not less than 200 mm wide.

**9.26.8.3. Securing of Tabs**

(1) Shingle tabs shall be secured with cold application cement applied at the rate of not less than 0.5 L/m<sup>2</sup> of cemented area, or hot application asphalt applied at the rate of 1 kg/m<sup>2</sup> of cemented area.

**9.26.8.4. Securing of Shingle Courses**

(1) The first course of shingles shall be secured by a continuous band of cement along the eaves applied so that the width of the band equals the shingle exposure plus 100 mm and the band is located not less than 50 mm above the lower edge of the starter strip.

(2) The succeeding courses of shingles shall be secured by a continuous band of cement applied so that the width of the band equals the shingle exposure plus 50 mm.

(3) The band required in Sentence (2) shall be located not less than 25 mm nor more than 50 mm above the butt of the overlying course of shingles.

**9.26.8.5. Hips and Ridges**

(1) Shingles on hips and ridges shall be not less than 300 mm wide applied to provide triple coverage.

(2) Shingles referred to in Sentence (1) shall be cemented to the roof shingles and to each other with a coat of cement 25 mm from the edges of the shingles and fastened with nails or staples located 40 mm above the butt of the overlying shingle and 50 mm from each edge.

**9.26.8.6. Flashing**

(1) Flashing shall conform to Subsection 9.26.4.

**9.26.8.7. Fastening**

(1) Shingles shall be fastened in accordance with Article 9.26.7.4.

**9.26.9. Wood Roof Shingles****9.26.9.1. Decking**

(1) Decking for wood shingled roofs may be continuous or spaced.

**9.26.9.2. Grade**

(1) Western red cedar shingles shall be not less than No. 2 grade.

(2) Eastern white cedar shingles shall be not less than B (clear) grade.

**9.26.9.3. Size**

(1) Wood shingles shall be not less than 400 mm long and not less than 75 mm nor more than 350 mm wide.

**9.26.9.4. Spacing and Joints**

(1) Shingles shall be spaced approximately 6 mm apart and offset at the joints in adjacent courses not less than 40 mm so that joints in alternate courses are staggered.

**9.26.9.5. Fastening**

(1) Shingles shall be fastened with 2 nails or staples located approximately 20 mm from the sides of the shingle and 40 mm above the exposure line.

**9.26.9.6. Exposure**

(1) The exposure of wood roof shingles shall conform to Table 9.26.9.6.

**Table 9.26.9.6.****Exposure of Wood Shingles**

Forming Part of Sentence 9.26.9.6.(1)

Roof Slope	Maximum Exposure, mm					
	No. 1 or A Grade Length of Shingle, mm			No. 2 or B Grade Length of Shingle, mm		
	400	450	600	400	450	600
< 1 in 3	100	115	165	90	100	140
≥ 1 in 3	125	140	190	100	115	165
Column 1	2	3	4	5	6	7

**9.26.9.7. Flashing**

(1) Flashing shall conform to Subsection 9.26.4.

**9.26.9.8. Eave Protection**

(1) Eave protection shall conform to Subsection 9.26.5.

**9.26.10. Handsplit Roof Shakes****9.26.10.1. Size and Thickness**

(1) Shakes shall be not less than 450 mm long and not less than 100 mm nor more than 350 mm wide with a butt thickness of not more than 32 mm and not less than 9 mm.

**9.26.10.2. Underlay**

(1) Where eave protection is not provided, an underlay conforming to the requirements in Article 9.26.6.1. for wood shingles shall be laid as a strip not less than 900 mm wide along the eaves.

(2) A strip of material similar to that described in Sentence (1) not less than 450 mm wide shall be interlayered between each course of shakes with the bottom edge of the strip positioned above the butt line at a distance equal to double the exposure of the shakes.

(3) Interlayered strips in Sentence (2) shall be lapped at least 150 mm at hips and ridges in a manner that will prevent water from reaching the roof sheathing.

**9.26.10.3. Spacing and Joints**

(1) Shakes shall be spaced 6 mm to 9 mm apart and the joints in one course shall be separated not less than 40 mm from joints in adjacent courses.

**9.26.10.4. Fastening**

(1) Shakes shall be fastened with nails located approximately 20 mm from the sides of the shakes and 40 mm above the exposure line.

**9.26.10.5. Exposure**

(1) The exposure of wood shakes shall not exceed

(a) 190 mm for shakes not less than 450 mm long, and

(b) 240 mm for shakes not less than 600 mm long.

**9.26.10.6. Flashing**

(1) Flashing shall conform to Subsection 9.26.4.

**9.26.10.7. Eave Protection**

(1) Eave protection shall conform to Subsection 9.26.5.

**9.26.11. Built-Up Roofs****9.26.11.1. Quantity of Materials**

(1) The quantities of bituminous materials used on built-up roofs shall conform to Table 9.26.11.1.

**Table 9.26.11.1.****Quantities of Bitumen for Built-Up Roofs**

Forming Part of Sentence 9.26.11.1.(1)

Type of Roof	Amount of Bitumen per Square Metre of Roof Surface	
	Mopping Coats Between Layers	Flood Coat
Asphalt and aggregate Coal-tar and aggregate	1 kg 1.2 kg	3 kg 3.6
Cold process roofing	0.75 L cold process cement	2 L cold process top coating
Column 1	2	3

**9.26.11.2. Coal-Tar and Asphalt Products**

(1) Coal-tar products and asphalt products shall not be used together in built-up roof construction.

**9.26.11.3. Roof Felts**

(1) Bitumen roofing felts shall be not less than No. 15 felt.

**9.26.11.4. Aggregate Surfacing**

(1) Aggregate used for surfacing built-up roofs shall be clean, dry and durable and shall consist of particles of gravel, crushed stone or air-cooled blast furnace slag having a size of from 6 mm to 15 mm.

(2) The minimum amount of aggregate surfacing per square metre of roof surface shall be 15 kg gravel or crushed stone or 10 kg crushed slag.

**9.26.11.5. Flashing**

(1) Flashing shall conform to Subsection 9.26.4.

**9.26.11.6. Number of Layers**

(1) Built-up roofing shall consist of at least 3 mopped-down layers of roofing felt flood coated with bitumen.

**9.26.11.7. Installation of Layers**

(1) In hot process applications each layer of bitumen-saturated felt shall be laid while the bitumen is hot, with each layer overlapping the previous one.

(2) The full width under each lap referred to in Sentence (1) shall be coated with bitumen so that in no place does felt touch felt.

(3) Felt shall be laid free of wrinkles and shall be rolled directly into the hot bitumen and broomed forward and outward from the centre to ensure complete adhesion.

#### **9.26.11.8. Roofing over Wood-Based Sheathing**

(1) Except as permitted in Sentence (2), built-up roofing applied over wood, plywood, OSB or waferboard roof sheathing shall be laid over an additional base layer of felt laid dry over the entire roof deck with at least a 50 mm headlap and a 50 mm sidelap between each sheet.

(2) Where plywood, OSB or waferboard roof sheathing is used, the dry layer of felt required in Sentence (1) may be omitted when the joints are taped and the sheathing is primed with asphalt.

#### **9.26.11.9. Attachment to Decking**

(1) Roofing shall be securely attached to the decking or where insulation is applied above the deck, the insulation shall be securely attached to the deck before the first layer of felt is fastened to the insulation.

#### **9.26.11.10. Cant Strips**

(1) Except as permitted in Sentence (4), a cant strip shall be provided at the edges of roofs.

(2) No fewer than 2 plies of the roofing membrane shall be carried over the top of the cant strip.

(3) Flashing shall extend over the top of the cant strip and be shaped to form a drip.

(4) The cant strip required in Sentence (1) may be omitted where a gravel stop is provided at the edge of roofs.

(5) The roofing membranes shall be carried over the edge of the roof before the gravel stop is fastened and 2 plies of roofing membrane mopped to the top surface of the gravel stop referred to in Sentence (4) before the flood coat is applied.

(6) The gravel stop referred to in Sentence (4) shall extend over the edge of the roof to form a drip or shall be flashed so that the flashing extends over the edge to form a drip.

#### **9.26.12. Salvage Roofing**

##### **9.26.12.1. Double Coverage**

(1) Wide salvage asphalt roofing shall provide double coverage over the entire roof surface.

##### **9.26.12.2. Joints**

(1) Plies of salvage roofing shall be cemented together to ensure a water-tight joint.

#### **9.26.13. Sheet Metal Roofing**

##### **9.26.13.1. Thickness**

(1) Sheet metal roofing shall be not less than

- (a) 0.33 mm thick galvanized steel,
- (b) 0.46 mm thick copper,

(c) 0.46 mm thick zinc, or

(d) 0.48 mm thick aluminum.

#### **9.26.14. Glass Reinforced Polyester Roofing**

##### **9.26.14.1. Support**

(1) Where glass reinforced polyester roofing panels are not supported by roof decking but span between spaced supports, the panels shall be designed to support the specified roof loads.

#### **9.26.15. Hot Applied Rubberized Asphalt Roofing**

##### **9.26.15.1. Installation**

(1) Hot applied rubberized asphalt roofing shall be installed in accordance with CGSB 37-GP-51M, "Application of Rubberized Asphalt, Hot Applied, for Roofing and Waterproofing".

#### **9.26.16. Polyvinyl Chloride Sheet Roofing**

##### **9.26.16.1. Installation**

(1) Polyvinyl chloride sheet applied roofing membrane shall be installed in accordance with CGSB 37-GP-55M, "Application of Sheet Applied Flexible Polyvinyl Chloride Roofing Membrane".

#### **9.26.17. Concrete Roof Tiles**

##### **9.26.17.1. Coverage**

(1) Concrete roof tiles shall be installed according to CAN/CSA-A220.1, "Installation of Concrete Roof Tiles."

#### **9.26.18. Downspouts and Roof Drains**

##### **9.26.18.1 Roof Drains**

(1) When roof drains are provided they shall conform to Part 7.

##### **9.26.18.2. Downspouts**

(1) Where downspouts are provided and are not connected to a sewer, extensions shall be provided to carry rainwater away from the building in a manner which will prevent soil erosion.

#### **Section 9.27. Cladding**

##### **9.27.1. Scope**

##### **9.27.1.1. Application**

(1) This Section applies to exterior wall coverings of lumber, wood shingles, shakes, asbestos-cement shingles and sheets, plywood, OSB, waferboard, hardboard, asphalt shingles, vinyl, aluminum and steel including trim, soffits and flashing.

##### **9.27.1.2. Stucco and Masonry Veneer**

(1) Requirements for stucco shall conform to Section 9.28 and requirements for masonry veneer shall conform to Section 9.20.

##### **9.27.1.3. Asphalt Shingles**

(1) Where asphalt shingles are used as siding, they shall conform to the requirements in Section 9.26 for asphalt roof shingles.

##### **9.27.2. General**

##### **9.27.2.1. Required Cladding**

(1) Exterior walls shall be protected with cladding, including flashing, trim and other special purpose accessory pieces required for



the cladding system being used, to restrict the entry of rain and snow into the wall assembly.

#### **9.27.2.2. Clearance from Ground**

(1) Not less than a 200 mm clearance shall be provided between the finished ground level and siding that is adversely affected by moisture such as wood, plywood, OSB, waferboard and hardboard.

#### **9.27.2.3. Clearance from Roof Surface**

(1) Not less than a 50 mm clearance shall be provided between a roof surface and cladding that is adversely affected by moisture such as wood, plywood, OSB, waferboard and hardboard.

#### **9.27.2.4. Insulating Asphalt Siding**

(1) Insulating asphalt cladding shall be ventilated by not less than a 10 mm air space behind the cladding.

### **9.27.3. Flashing**

#### **9.27.3.1. Materials**

(1) Flashing shall consist of not less than

- (a) 1.73 mm thick sheet lead,
- (b) 0.33 mm thick galvanized steel,
- (c) 0.46 mm thick copper,
- (d) 0.46 mm thick zinc,
- (e) 0.48 mm thick aluminum, or
- (f) 1.02 mm thick vinyl.

#### **9.27.3.2. Installation**

(1) Flashing shall be installed at every horizontal junction between 2 different exterior finishes, except where the upper finish overlaps the lower finish.

(2) Except as provided in Sentence (4), flashing shall be applied over exterior wall openings where the vertical distance from the bottom of the eave to the top of the trim is more than one-quarter of the horizontal overhang of the eave.

(3) Flashing shall be installed so that it extends upwards not less than 50 mm behind the sheathing paper and forms a drip on the outside edge.

(4) Where a window or exterior door is designed to be installed without head flashing, the exterior flange of the window or door frame shall be bedded into a non-hardening type caulking material and the exterior flange screwed down over the caulking material to the wall framing to form a waterproof joint.

### **9.27.4. Caulking**

#### **9.27.4.1. Required Caulking**

(1) Caulking shall be provided where required to prevent the entry of water into the structure.

(2) Caulking shall be provided between masonry, siding or stucco and the adjacent door and window frames or trim, including sills unless such locations are completely protected from the entry of rain.

(3) Caulking shall be provided at vertical joints between different cladding materials unless the joint is suitably lapped or flashed to prevent the entry of rain.

#### **9.27.4.2. Materials**

(1) Caulking shall be

- (a) a non-hardening type suitable for exterior use,
- (b) selected for its ability to resist the effects of weathering, and
- (c) compatible with and adhere to the substrate to which it is applied.

(2) Caulking shall conform to

- (a) CGSB 19-GP-5M, "Sealing Compound, One Component, Acrylic Base, Solvent Curing",
- (b) CAN/CGSB-19.13-M, "Sealing Compound, One Component, Elastomeric, Chemical Curing",
- (c) CGSB 19-GP-14M, "Sealing Compound, One Component, Butyl- Polyisobutylene Polymer Base, Solvent Curing", or
- (d) CAN/CGSB-19.24-M, "Multi-Component, Chemical Curing Sealing Compound".

### **9.27.5. Attachment of Cladding**

#### **9.27.5.1. Attachment**

(1) Except as permitted in Sentences (2) to (7), cladding shall be nailed to the framing members, furring members or to blocking between the framing members.

(2) Vertical lumber and stucco lath or reinforcing are permitted to be attached to sheathing only where the sheathing consists of not less than

- (a) 14.3 mm lumber,
- (b) 12.5 mm plywood, or
- (c) 12.5 mm OSB or waferboard.

(3) Vertically applied metal siding and wood shingles and shakes are permitted to be attached to the sheathing only where the sheathing consists of not less than

- (a) 14.3 mm lumber,
- (b) 7.5 mm plywood, or
- (c) 7.5 mm OSB or waferboard.

(4) Asbestos-cement shingles are permitted to be attached to the sheathing only when the sheathing consists of not less than

- (a) 14.3 mm lumber,
- (b) 9.5 mm plywood, or
- (c) 9.5 mm OSB or waferboard.

(5) Where wood shingles or shakes are applied to sheathing which is not suitable for attaching the shingles or shakes, the shingles or shakes may be attached to a wood lath not less than 38 mm by 9.5 mm thick securely nailed to the framing and applied as described in Article 9.27.7.5.

(6) Where asbestos-cement shingles are applied to sheathing that is not suitable for attaching the shingles, the shingles may be fastened to a wood lath not less than 89 mm by 9.5 mm thick securely nailed to the framing.

(7) Lath referred to in Sentence (6) shall be applied so that it overlaps the preceding shingle course by not less than 20 mm.

#### 9.27.5.2. Blocking

(1) Blocking for the attachment of cladding shall be not less than 38 mm by 38 mm lumber securely nailed to the framing and spaced not more than 600 mm o.c.

#### 9.27.5.3. Furring

(1) Except as permitted in Sentences 9.27.5.1.(5) and (6), furring for the attachment of cladding shall be not less than 19 mm by 38 mm lumber when applied over sheathing.

(2) When applied without sheathing, furring referred to in Sentence (1) shall be not less than

(a) 19 mm by 64 mm lumber on supports spaced not more than 400 mm o.c., or

(b) 19 mm by 89 mm on supports spaced not more than 600 mm o.c.

(3) Furring referred to in Sentence (1) shall be

(a) securely fastened to the framing, and

(b) spaced not more than 600 mm o.c.

#### 9.27.5.4. Size and Spacing of Fasteners

(1) Nail or staple size and spacing for the attachment of cladding and trim shall conform to Table 9.27.5.4.

**Table 9.27.5.4.**

#### Attachment of Cladding

Forming Part of Sentence 9.27.5.4.(1)

Type of Cladding	Minimum Nail or Staple Length, mm	Minimum Number of Nails or Staples	Maximum Nail or Staple Spacing
Wood trim	51	—	600 mm (o.c.)
Lumber siding or horizontal siding made from sheet metal	51	—	600 mm (o.c.)
Metal siding	38	—	600 mm (o.c.) (nailed to framing)
Handsplitted wood shakes up to 200 mm in width over 200 mm in width	51	2	—
	51	3	—

Wood shingles and machine grooved shakes 200 mm in width over 200 mm in width	32	2	—
	32	3	—
Asbestos-cement shingles	32	2	—
Panel or sheet type cladding up to 7 mm thick more than 7 mm thick	38	—	150 mm along edges
	51	—	300 mm along intermediate supports
Column 1	2	3	4

#### 9.27.5.5. Fastener Materials

(1) Nails or staples for the attachment of cladding and wood trim shall be corrosion-resistant and shall be compatible with the cladding material.

#### 9.27.5.6. Expansion and Contraction

(1) Fasteners for metal or vinyl cladding shall be positioned to permit expansion and contraction of the siding.

#### 9.27.5.7. Penetration of Fasteners

(1) Fasteners for shakes and shingles shall penetrate through the nail-holding base or not less than 19 mm into the framing.

(2) Fasteners for cladding other than that described in Sentence (1) shall penetrate through the nail-holding base or not less than 25 mm into the framing.

#### 9.27.6. Lumber Siding

##### 9.27.6.1. Materials

(1) Lumber siding shall be sound, free of knot holes, loose knots, through checks or splits.

##### 9.27.6.2. Thickness and Width

(1) Drop, rustic, novelty, lapped board and vertical wood siding shall be not less than 14.3 mm thick and not more than 286 mm wide.

(2) Bevel siding shall be

(a) not less than 5 mm thick at the top, and

(b) not less than

(i) 12 mm thick at the butt for sidings 184 mm or less in width, and

(ii) 14.3 mm thick at the butt for sidings wider than 184 mm.

(3) Bevel siding shall be not more than 286 mm wide.

##### 9.27.6.3. Joints

(1) Lumber siding shall prevent water from entering at the joints by the use of lapped or matched joints or by vertical wood battens.

(2) Siding shall overlap not less than 1 mm per 16 mm width of lumber, but not less than

- (a) 9.5 mm for matched siding,
- (b) 25 mm for lapped bevel siding, or
- (c) 12 mm for vertical battens.

### 9.27.7. Wood Shingles and Machine Grooved Shakes

#### 9.27.7.1. Materials

(1) Shingles and shakes shall conform to

- (a) CSA O118.1-M, "Western Red Cedar Shingles and Shakes," or
- (b) CSA O118.2-M, "Eastern White Cedar Shingles".

(2) Western red cedar shakes shall be at least No. 1 grade and shingles at least No. 2 grade, except that No. 3 grade may be used for the lower course of double course applications.

(3) Eastern white cedar shakes shall be at least B (clear) grade, except that C grade may be used for the lower course of double course applications.

#### 9.27.7.2. Width

(1) Shingles and shakes shall be not less than 65 mm nor more than 350 mm wide.

#### 9.27.7.3. Fasteners

(1) Shingles or shakes shall be fastened with nails located approximately 20 mm from each edge and not less than 25 mm above the exposure line for single-course applications, or approximately 50 mm above the butt for double-course applications.

#### 9.27.7.4. Offsetting of Joints

(1) In single-course application, joints in succeeding courses shall be offset at least 40 mm so that joints in any 2 of 3 consecutive courses are staggered.

(2) In double-course application, joints in the outer course shall be offset from joints in the under-course by not less than 40 mm, and joints in succeeding courses shall be offset not less than 40 mm.

#### 9.27.7.5. Fastening to Lath

(1) When lath is used with double-course application, it shall be spaced according to the exposure and securely fastened to the framing.

(2) The butts of the under-course of the application referred to in Sentence (1) shall rest on the top edge of the lath.

(3) The outer course of the application referred to in Sentence (1) shall be fastened to the lath with nails of sufficient length to penetrate through the lath.

(4) The butts of the shingles or shakes shall be so located that they project not less than 12 mm below the bottom edge of the lath referred to in Sentence (1).

(5) If wood lath is not used, the butts of the under-course shingles or shakes of the application referred to in Sentence (1) shall be located 12 mm above the butts of the outer course.

### 9.27.7.6. Exposure and Thickness

(1) The exposure and butt thickness of shingles shall conform to Table 9.27.7.6.

Table 9.27.7.6.

#### Exposure and Thickness of Wood Shingles and Machine Grooved Shakes

Forming Part of Sentence 9.27.7.6.(1)

Shake or Shingle Length, mm	Maximum Exposure, mm		Minimum Butt Thickness, mm
	Single Coursing	Double Coursing	
400	190	305	10
450	216	356	11
600	292	406	13
Column 1	2	3	4

### 9.27.8. Asbestos-Cement Shingles and Sheets

#### 9.27.8.1. Material Standards

(1) Asbestos-cement shingles and sheets shall conform to

- (a) CAN/CGSB-34.4-M, "Siding, Asbestos Cement, Shingles and Clapboards",
- (b) CAN/CGSB-34.5-M, "Sheets, Asbestos Cement, Corrugated",
- (c) CAN/CGSB-34.14-M, "Sheets, Asbestos Cement, Decorative",
- (d) CAN/CGSB-34.16, "Sheets, Asbestos Cement, Flat, Fully Compressed",
- (e) CAN/CGSB-34.17-M, "Sheets, Asbestos Cement, Flat, Semi-compressed", or
- (f) CAN/CGSB-34.21-M, "Panels, Sandwich Asbestos, Cement and Insulating Cores".

#### 9.27.8.2. Weight and Thickness

(1) Asbestos-cement shingles shall weigh not less than 8.06 kg/m<sup>2</sup>.

(2) Asbestos-cement sheet shall be not less than

- (a) 4.75 mm thick where applied to studs spaced not more than 400 mm o.c., and,
- (b) 6 mm thick where applied to studs spaced not more than 600 mm o.c.

(3) Where applied over sheathing, the thickness of asbestos-cement sheet shall be not less than 3.15 mm.

#### 9.27.8.3. Fastening of Shingles

(1) Asbestos-cement shingles shall be fastened with nails located not less than 25 mm above the exposure line.

#### 9.27.8.4. Joints of Shingles

(1) Asbestos-cement shingles shall be installed so that vertical joints in succeeding courses are staggered.



(2) Asphalt-coated backer strips shall be installed behind each vertical joint.

(3) Shingles referred to in Sentence (1) shall have not less than a 25 mm head lap.

#### 9.27.8.5. Joints in Panels

(1) Vertical joints of asbestos-cement panels shall be protected with batten strips, caulking or other suitable method.

(2) Horizontal joints of asbestos-cement panels shall be lapped, flashed, caulked or otherwise suitably protected.

#### 9.27.9. Plywood

##### 9.27.9.1. Material Standards

(1) Plywood cladding shall be exterior type conforming to

(a) CSA O115-M, "Hardwood and Decorative Plywood",

(b) CSA O121-M, "Douglas Fir Plywood",

(c) CSA O151-M, "Canadian Softwood Plywood", or

(d) CSA O153-M, "Poplar Plywood".

##### 9.27.9.2. Thickness

(1) Plywood cladding shall be not less than 6 mm thick when applied directly to sheathing.

(2) When applied directly to framing or over furring strips, plywood cladding thickness shall conform to Table 9.27.9.2.

**Table 9.27.9.2.**

#### Minimum Plywood Cladding Thickness

Forming Part of Sentence 9.27.9.2.(2)

Spacing of Supports, mm	Minimum Thickness, mm	
	Face Grain Parallel to Supports	Face Grain Right Angles to Supports
400	8	6
600	11	8
Column 1	2	3

(3) The thickness of grooved or textured plywood shall be measured at the point of least thickness.

##### 9.27.9.3. Edge Treatment

(1) The edges of plywood cladding shall be treated with a suitable paint or sealer.

##### 9.27.9.4. Panel Siding

(1) Plywood applied in panels shall have all edges supported.

(2) Not less than a 2 mm gap shall be provided between panels referred to in Sentence (1).

(3) Vertical joints in cladding referred to in Sentence (1) shall be protected with batten strips or caulking when the plywood joints are not matched.

(4) Horizontal joints in cladding referred to in Sentence (1) shall be lapped not less than 25 mm or shall be suitably flashed.

##### 9.27.9.5. Lapped Strip Siding

(1) Plywood applied in horizontal lapped strips shall have not less than a 2 mm gap provided at the butted ends, which shall be caulked.

(2) The horizontal joints of siding described in Sentence (1) shall be lapped not less than 25 mm.

(3) Wedges shall be inserted under all vertical butt joints and at all corners when horizontal lapped plywood is applied without sheathing.

##### 9.27.10. Hardboard

##### 9.27.10.1. Material Standards

(1) Factory-finished hardboard cladding shall conform to CAN/CGSB-11.5M, "Hardboard, Precoated, Factory-Finished, for Exterior Cladding".

(2) Hardboard cladding which is not factory finished shall conform to Types 1, 2 or 5 in CAN/CGSB-11.3-M, "Hardboard".

##### 9.27.10.2. Thickness

(1) Type 1 or 2 hardboard cladding shall be not less than

(a) 6.0 mm thick when applied over sheathing that provides continuous support, and

(b) 7.5 mm thick when applied to furring or framing members not more than 400 mm o.c.

(2) Type 5 hardboard cladding shall be not less than 9.0 mm thick when applied over sheathing that provides continuous support or over furring or framing members spaced not more than 400 mm o.c.

(3) Where hardboard cladding is grooved, the grooves shall not extend more than 1 500 mm into the required thickness.

##### 9.27.10.3. Panel Siding

(1) Hardboard cladding applied in panels shall have all edges supported with not less than a 5 mm gap provided between sheets.

(2) Vertical joints in cladding described in Sentence (1) shall be protected with batten strips or caulking when the joints are not matched.

(3) Horizontal joints in cladding described in Sentence (1) shall be lapped not less than 25 mm or shall be suitably flashed.

##### 9.27.10.4. Lapped Strip Siding

(1) Hardboard applied in horizontal lapped strips shall have not less than a 5 mm gap provided at the butted ends, which shall be caulked or otherwise protected with suitable mouldings.

(2) The horizontal joints of siding described in Sentence (1) shall overlap not less than 1 mm per 16 mm width of siding board but not less than 9.5 mm for matched joint siding or 25 mm for lapped siding.

##### 9.27.10.5. Clearance

(1) Not less than 3 mm clearance shall be provided between hardboard siding and door or window frames.

**9.27.11. OSB and Waferboard****9.27.11.1. Material Standard**

(1) OSB and waferboard cladding shall conform to CAN3-O437.0, "OSB and Waferboard".

**9.27.11.2. Thickness**

(1) OSB conforming to O-2 grade shall be not less than 6.0 mm thick where applied directly to sheathing.

(2) OSB conforming to O-2 grade applied directly to framing or over furring strips, shall conform to the thickness shown for plywood in Table 9.27.9.2.

(3) OSB conforming to O-1 grade and waferboard conforming to R-1 grade shall be not less than 7.9 mm thick where applied directly to sheathing.

(4) Where applied directly to framing or over furring strips, OSB conforming to O-1 grade and waferboard conforming to R-1 grade shall be not less than

(a) 9.5 mm thick on supports spaced not more than 400 mm o.c., and

(b) 12.7 mm thick on supports spaced not more than 600 mm o.c.

**9.27.11.3. Panel Cladding**

(1) OSB and waferboard applied in panels shall have all edges supported and treated with a primer or sealer.

(2) Not less than a 3 mm gap shall be provided between sheets in cladding described in Sentence (1).

(3) Vertical joints in cladding described in Sentence (1) shall be protected with batten strips or caulking when the OSB and waferboard joints are not matched.

(4) Horizontal joints in cladding described in Sentence (1) shall be lapped not less than 25 mm or shall be suitably flashed.

**9.27.11.4. Clearance**

(1) At least a 3 mm clearance shall be provided between OSB and waferboard cladding and door or window frames.

**9.27.12. Metal Siding****9.27.12.1. Material Standards**

(1) Horizontal and vertical strip steel siding, including flashing and trim accessories, shall conform to CAN/CGSB-93.4-M, "Galvanized Steel and Aluminum-Zinc Coated Steel Siding, Soffits and Fascia, Prefinished, Residential".

(2) Steel sheet cladding shall have a minimum thickness of 0.3 mm and conform to CAN/CGSB-93.3-M, "Prefinished Galvanized and Aluminum-Zinc Alloy Sheet, for Residential Use".

(3) Horizontal and vertical strip aluminum siding, including flashing and trim accessories, shall conform to CAN/CGSB-93.2-M, "Prefinished Aluminum Siding, Soffits and Fascia, for Residential Use".

(4) Aluminum sheet cladding shall conform to CAN/CGSB-93.1-M, "Sheet, Aluminum Alloy, Prefinished, Residential" and shall have a

thickness of not less than 0.58 mm, except that siding supported by backing or sheathing shall have a thickness of not less than 0.46 mm.

**9.27.13. Vinyl Siding****9.27.13.1. Material Standard**

(1) Vinyl siding, including flashing and trim accessories, shall conform to CGSB 41-GP-24Ma, "Siding, Soffits and Fascia, Rigid Vinyl".

**9.27.13.2. Attachment**

(1) The attachment of vinyl siding shall conform to the requirements in Subsection 9.27.5. for metal siding.

**Section 9.28. Stucco****9.28.1. General****9.28.1.1. Sheathing Beneath Stucco**

(1) Sheathing shall be provided beneath stucco applied over wood-frame walls except as permitted in Article 9.28.4.2.

(2) Where applied beneath stucco, sheathing shall conform to Subsection 9.23.16.

**9.28.1.2. Lath and Reinforcing**

(1) Stucco lath or reinforcing shall be used to attach stucco to any substrate other than masonry.

(2) Stucco lath or reinforcing shall be used to attach stucco to masonry where

(a) the masonry is soft-burned tile or brick of less strength than the stucco, or

(b) the masonry surface is not sound, clean and sufficiently rough to provide a good key.

(3) Stucco applied over *masonry chimneys* shall be reinforced.

**9.28.1.3. Concrete Masonry Units**

(1) Stucco finish shall not be applied over concrete masonry units less than one month old unless the units have been cured by the autoclave process.

**9.28.1.4. Clearance over Ground Level**

(1) Stucco shall be not less than 200 mm above finished ground level except when it is applied over concrete or masonry.

**9.28.1.5. Flashing and Caulking**

(1) Flashing and caulking used with stucco shall conform to Subsections 9.27.3. and 9.27.4., except that if aluminum flashing is used, it shall be separated from the stucco by an impervious membrane or coating.

**9.28.2. Stucco Materials****9.28.2.1. Portland Cement**

(1) Portland cement shall conform to CAN/CSA-A5, "Portland Cement".

**9.28.2.2. Aggregate**

(1) Aggregate shall be clean, well-graded natural sand or sand manufactured from crushed stone, gravel or air-cooled blast furnace slag and shall contain no significant amounts of deleterious material.

(2) Aggregate grading shall conform to Table 9.28.2.2.

**Table 9.28.2.2.****Aggregate Grading for Stucco**

Forming Part of Sentence 9.28.2.2.(2)

Sieve Sizes, mm	% Passing	
	Maximum	Minimum
4	—	100
2	—	90
1	90	60
0.5	60	45
0.25	30	10
0.125	5	—
Column 1	2	3

**9.28.2.3. Water**

(1) Water shall be clean and free of significant amounts of deleterious material.

**9.28.3. Fasteners****9.28.3.1. Materials**

(1) Fasteners for stucco lath or reinforcing shall be corrosion-resistant and of a material other than aluminum.

**9.28.3.2. Nails and Staples**

(1) Nails for stucco lath or reinforcing shall be not less than 3.2 mm diam with a head diameter of not less than 11.1 mm.

(2) Staples for stucco lath reinforcing shall be not less than 1.98 mm diam or thickness.

(3) Staples and nails for attaching stucco lath or reinforcing to vertical surfaces shall be of sufficient length to penetrate 25 mm into framing members or to the full depth of the sheathing where the sheathing is used for attachment.

(4) On horizontal surfaces nails for stucco lath or reinforcing shall be not less than 38 mm long.

**9.28.4. Stucco Lath****9.28.4.1. Materials**

(1) Rib lath or expanded metal stucco mesh shall be

(a) copper-alloy steel coated with rust-inhibitive paint after fabrication, or

(b) galvanized.

(2) Woven or welded wire mesh shall be galvanized.

**9.28.4.2. No Sheathing Required**

(1) Sheathing need not be provided beneath stucco where not less than 1.19 mm diam galvanized wire is applied horizontally to the framing at vertical intervals not exceeding 150 mm, or where paper-backed welded wire metal lath is used.

**9.28.4.3. Stucco Lath Specifications**

(1) Stucco lath shall conform to Table 9.28.4.3.

**Table 9.28.4.3.****Stucco Lath**

Forming Part of Sentence 9.28.4.3.(1)

Location	Type of Lath	Minimum Diam. of Wire, mm	Maximum Mesh Opening	Minimum Mass, kg/m <sup>2</sup>
Vertical surfaces	Welded or woven wire	1.19 1.35 1.60	25 mm 38 mm 51 mm	— — —
	Stucco mesh reinforcing (expanded metal)	—	25.8 cm <sup>2</sup>	0.98
Horizontal surfaces <sup>(1)</sup>	9.5 mm rib lath	—	—	1.84
	Cedar lath	—	—	—
Column 1	2	3	4	5

**9.28.4.4. Self-Furring Devices**

(1) Stucco lath shall be held not less than 6 mm away from the backing by means of suitable self-furring devices.

**9.28.4.5. Application of Stucco Lath**

(1) Stucco lath shall be applied with the long dimension horizontal.

(2) Horizontal and vertical joints shall be lapped not less than 50 mm.

(3) End joints of stucco lath shall be staggered and shall occur over framing members.

(4) External corners of stucco lath shall be reinforced with a vertical strip of lath or reinforcing extending not less than 150 mm on both sides of the corner, or the lath or reinforcing shall extend around corners not less than 150 mm.

**9.28.4.6. Fastening**

(1) Stucco lath shall be fastened in conformance with Subsection 9.27.5.

(2) Fasteners on vertical surfaces shall be spaced not more than

(a) 150 mm o.c. vertically and 400 mm o.c. horizontally, or

(b) 100 mm o.c. vertically and 600 mm o.c. horizontally.

(3) Nailing patterns other than those required in Sentence (2) are permitted to be used provided there are not fewer than 20 fasteners per square metre of wall surface.



- (4) Fasteners on horizontal surfaces shall be spaced not more than
- (a) 150 mm o.c. along the framing members when members are spaced not more than 400 mm o.c., and
- (b) 100 mm o.c. along members when members are spaced not more than 600 mm o.c.

### 9.28.5. Stucco Mixes

#### 9.28.5.1. Mixes

- (1) Stucco mixes shall conform to Table 9.28.5.1.

**Table 9.28.5.1.**

#### Stucco Mixes

Forming Part of Sentence 9.28.5.1.(1)

Materials, volume			
Portland Cement	Masonry Cement	Lime	Aggregate
1	—	0.25 to 1	3.25 to 4 parts per part of cementitious material
1	1	—	
Column 1	2	3	4

#### 9.28.5.2. Pigments

- (1) Pigment if used shall consist of pure mineral oxides inert to the action of sun, lime and cement.
- (2) Pigment shall not exceed 6% of the portland cement by weight.

#### 9.28.5.3. Mixing

- (1) Materials shall be thoroughly mixed before and after water is added.
- (2) Stucco shall be applied not later than 3 h after the initial mixing.

### 9.28.6. Stucco Application

#### 9.28.6.1. Low Temperature Conditions

- (1) The base for stucco shall be maintained above freezing.
- (2) Stucco shall be maintained at a temperature of not less than 10°C during application and for not less than 48 h afterwards.

#### 9.28.6.2. Number of Coats and Total Thickness

- (1) Stucco shall be applied with at least 2 base coats and one finish coat, providing a total thickness of not less than 15 mm, measured from the face of the lath or face of the masonry where no lath is used.

#### 9.28.6.3. First Coat

- (1) The first coat shall be not less than 6 mm thick, measured from the face of the lath or masonry, fully embedding the lath.
- (2) The surface of the first coat shall be scored to provide a key with the second coat.

### 9.28.6.4. Second Coat

- (1) The second coat shall be not less than 6 mm thick.
- (2) The surface of the second shall be lightly roughened to provide a key with the finish coat if the finish coat is other than stone dash.

### 9.28.6.5. Finish Coat

- (1) When the finish coat is other than stone dash, the base shall be dampened but not saturated before the finish coat is applied.
- (2) The thickness of the finish coat shall be not less than 3 mm.
- (3) When a stone dash finish is used, the stone shall be partially embedded in the second coat before the second coat starts to set or stiffen.

## Section 9.29. Interior Wall and Ceiling Finishes

### 9.29.1. General

#### 9.29.1.1. Fire Protection and Sound Control

- (1) A wall or ceiling finish shall also conform to the appropriate requirements in Sections 9.10 and 9.11 in addition to the requirements in this Section.

### 9.29.2. Waterproof Wall Finish

#### 9.29.2.1. Where Required

- (1) Waterproof finish shall be provided to a height of not less than
- (a) 1 800 mm above the floor in shower stalls,
- (b) 1 200 mm above the rims of bathtubs equipped with showers, and
- (c) 400 mm above the rims of bathtubs not equipped with showers.

#### 9.29.2.2. Materials

- (1) Waterproof finish shall consist of ceramic, plastic or metal tile, sheet vinyl, tempered hardboard, laminated thermosetting decorative sheets or linoleum.

### 9.29.3. Wood Furring

#### 9.29.3.1. Size and Spacing of Furring

- (1) Wood furring for the attachment of wall and ceiling finishes shall conform to Table 9.29.3.1.

**Table 9.29.3.1.**

#### Size and Spacing of Furring

Forming Part of Sentence 9.29.3.1.(1)

Maximum Spacing of Furring, mm	Minimum Size of Furring, mm		
	Maximum Spacing of Furring Supports		
	Continuous Supports	400 mm (o.c.)	600 mm (o.c.)
300	19 x 38	19 x 38	19 x 64
400	19 x 38	19 x 38	19 x 64
600	19 x 38	19 x 64	19 x 89
Column 1	2	3	4

9.29.3.2. Fastening

(1) Furring shall be fastened to the framing or to wood blocks with not less than 51 mm nails.

9.29.4 Plastering

9.29.4.1. Application

(1) Application of plaster wall and ceiling finishes including installation of metal or gypsum lath, shall conform to CSA A82.30-M, "Interior Furring, Lathing and Gypsum Plastering".

9.29.5. Gypsum Board Finish (Taped Joints)

9.29.5.1. Application

(1) The requirements for application of gypsum board in this Subsection apply to the single layer application of gypsum board to wood furring or framing using nails or screws.

(2) Gypsum board applications not described in this Subsection shall conform to CSA A82.31-M, "Gypsum Board Application".

9.29.5.2. Materials

- (1) Gypsum products shall conform to
- (a) CAN/CSA-A82.27, "Gypsum Board",
  - (b) ASTM C 36, "Gypsum Wallboard",
  - (c) ASTM C 37, "Gypsum Lath",
  - (d) ASTM C 442, "Gypsum Backing Board and Coreboard",
  - (e) ASTM C 558, "Gypsum Base for Veneer Plaster",
  - (f) ASTM C 630, "Water Resistant Gypsum Board Backing",
  - (g) ASTM C 931, "Exterior Gypsum Soffit Board", or
  - (h) ASTM C 960, "Predecorated Gypsum Board".

9.29.5.3. Maximum Spacing of Supports

(1) Maximum spacing of supports for gypsum board applied as a single layer shall conform to Table 9.29.5.3.

Table 9.29.5.3.

Spacing of Supports for Gypsum Board

Forming Part of Sentence 9.29.5.3.(1)

Thickness mm	Orientation of Board to Framing	Maximum Spacing of Supports, mm o.c.		
		Walls	Ceilings	
			Painted Finish	Water-Based Texture Finish
9.5	parallel perpendicular	— 400	— 400	— —
12.7	parallel perpendicular	600 600	400 600	— 400
15.9	parallel perpendicular	600 600	400 600	— 600
Column 1	2	3	4	5

9.29.5.4. Support of Insulation

(1) Gypsum board supporting insulation shall be at least 12.7 mm thick.

9.29.5.5. Length of Fasteners

(1) The length of fasteners for gypsum board shall conform to Table 9.29.5.5., except that lesser depths of penetration are permitted for assemblies required to have a *fire-resistance rating* provided it can be shown, on the basis of fire tests, that such depths are adequate for the required rating.

Table 9.29.5.5.

Fastener Penetration into Wood Supports

Forming Part of Sentence 9.29.5.5.(1)

Required <i>Fire-Resistance Rating</i> of Assembly	Minimum Penetration, mm			
	Walls		Ceilings	
	Nails	Screws	Nails	Screws
Not required	20	15	20	15
45 min	20	20	30	30
1 h	20	20	45	45
1.5 h	20	20	60	60
Column 1	2	3	4	5

9.29.5.6. Nails

(1) Nails for fastening gypsum board to wood supports shall conform to CSA B111. "Wire Nails, Spikes and Staples".

9.29.5.7. Screws

(1) Screws for fastening gypsum board to wood supports shall conform to ASTM C1002, "Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases".

9.29.5.8. Spacing of Nails

(1) For single-layer application nails shall be spaced not more than 180 mm on ceiling supports, and not more than 200 mm apart along vertical wall supports, except that nails may be spaced in pairs about 50 mm apart every 300 mm along such wall or ceiling supports.

(2) Where the ceiling sheets are supported by the wall sheets around the perimeter of the ceiling, this support may be considered as equivalent to nailing at this location.

(3) The uppermost wall nails shall be not more than 200 mm below the ceiling.

(4) Nails shall be located not less than 10 mm from the side or edge of the board.

(5) Nails shall be driven so that the heads are below the plane of the board surface but do not puncture the paper.

9.29.5.9. Spacing of Screws

(1) Where gypsum board is applied with drywall screws, the screws shall be spaced not more than 300 mm o.c. along supports, except that on vertical surfaces the screws may be spaced 400 mm o.c. where the supports are not more than 400 mm o.c.

**9.29.5.10. Low Temperature Conditions**

(1) In cold weather, heat shall be provided to maintain a temperature of not below 10°C for 48 h prior to taping and finishing and maintained for not less than 48 h thereafter.

**9.29.6. Plywood Finish****9.29.6.1. Thickness**

(1) Except as provided in Sentences (2) and (3), the minimum thickness of plywood interior finish shall conform to Table 9.29.6.1.

**Table 9.29.6.1.****Thickness of Plywood Interior Finish**

Forming Part of Articles 9.29.6.1. and 9.29.6.2.

Maximum Spacing of Supports, mm	Minimum Thickness, mm <sup>(1)</sup>	
	On supports with no Horizontal Blocking	On Supports with Blocking at Vertical Intervals not Exceeding 1.2 m
400	4.7	4.0
600	8.0	4.7
Column 1	2	3

**Note to Table 9.29.6.1.**

(1) Thickness limits shall apply to the net effective thickness (NET) of grooved, striated, textured and/or embossed panels and to the actual thickness of flat panels.

(2) A manufacturing tolerance of -0.4 mm may be applied to the thicknesses listed in Table 9.29.6.1.

(3) No minimum thickness is required where plywood is applied over continuous backing.

**9.29.6.2. Grooved Plywood**

(1) Except as permitted in Sentence (2), where plywood for interior finish is grooved, the grooves shall not extend through the face ply and into the plies below the face ply unless the groove is supported by framing or furring.

(2) If the grain of the face ply is at right angles to the supporting members, the groove is permitted to extend into the plies below the face ply provided the thickness of the plywood exceeds the value shown in Table 9.29.6.1. by an amount equal to not less than the depth of penetration of the grooves into the plies below the face ply.

**9.29.6.3. Nails and Staples**

(1) Nails for attaching plywood finishes shall not be less than 38 mm casing or finishing nails spaced not more than 150 mm o.c. along edge supports and 300 mm o.c. along intermediate supports, except that staples providing equivalent lateral resistance may also be used.

**9.29.6.4. Edge Support**

(1) All plywood edges shall be supported by furring, blocking or framing.

**9.29.7. Hardboard Finish****9.29.7.1. Material Standard**

(1) Hardboard shall conform to CAN/CGSB-11.3-M, "Hardboard".

**9.29.7.2. Thickness**

(1) Hardboard shall be not less than

- (a) 3 mm thick where applied over continuous back-up,
- (b) 6 mm thick where applied to supports spaced not more than 400 mm o.c., and
- (c) 9 mm thick where applied to supports spaced not more than 600 mm o.c.

**9.29.7.3. Nails**

(1) Nails for fastening hardboard shall be casing or finishing nails not less than 38 mm long, spaced not more than 150 mm o.c. along edge supports and 300 mm o.c. along intermediate supports.

**9.29.7.4. Edge Support**

(1) All hardboard edges shall be supported by furring, blocking or framing where the back-up is not continuous.

**9.29.8. Insulating Fibreboard Finish****9.29.8.1. Material Standard**

(1) Insulating fibreboard shall conform to CAN/CSA-A247-M, "Insulating Fibreboard".

**9.29.8.2. Thickness**

(1) Insulating fibreboard sheets shall be not less than 11.1 mm thick on supports not more than 400 mm o.c.

(2) Insulating fibreboard tile shall be not less than 12.7 mm thick on supports spaced not more than 400 mm o.c.

**9.29.8.3. Nails**

(1) Nails for fastening fibreboard sheets shall be not less than 2.6 mm shank diameter casing or finishing nails of sufficient length to penetrate not less than 20 mm into the supports.

(2) Nails shall be spaced not more than 100 mm o.c. along edge supports and 200 mm o.c. along intermediate supports.

**9.29.8.4. Edge Support**

(1) All fibreboard edges shall be supported by blocking, furring or framing.

**9.29.9. Particleboard, OSB or Waferboard Finish****9.29.9.1. Material Standard**

(1) Particleboard finish shall conform to CAN3-O188.1, "Interior Mat-Formed Wood Particleboard".

(2) OSB or waferboard and strandboard finish shall conform to CSA O437.0, "OSB and Waferboard".

**9.29.9.2. Minimum Thickness**

(1) Except as provided in Sentences (2) and (3), the minimum thickness of O-2 grade OSB used as an interior finish shall conform to that shown for plywood in Table 9.29.6.1.

(2) Thickness listed in Table 9.29.6.1. shall permit a manufacturing tolerance of - 0.4 mm.



(3) No minimum thickness is required where O-2 grade OSB is applied over continuous backing.

(4) OSB conforming to O-1 grade, waferboard conforming to R-1 grade and particleboard shall be

- (a) not less than 6.35 mm thick on supports not more than 400 mm o.c.,
- (b) not less than 9.5 mm thick on supports not more than 600 mm o.c., and
- (c) not less than 6.35 mm thick on supports not more than 600 mm o.c. in walls where blocking is provided at midwall height.

#### 9.29.9.3. Nails

(1) Nails for fastening particleboard, OSB or waferboard shall be not less than 38 mm casing or finishing nails spaced not more than 150 mm o.c. along edge supports and 300 mm o.c. along intermediate supports.

#### 9.29.9.4. Edge Support

(1) All particleboard, OSB or waferboard edges shall be supported by furring, blocking or framing.

#### 9.29.10. Wall Tile Finish

##### 9.29.10.1. Tile Application

(1) Ceramic tile shall be set in a mortar base or applied with an adhesive.

(2) Plastic tile shall be applied with an adhesive.

##### 9.29.10.2. Mortar Base

(1) When ceramic tile is applied to a mortar base the cementitious material shall consist of 1 part portland cement to not more than one-quarter part lime by volume.

(2) The cementitious material described in Sentence (1) shall be mixed with not less than 3 nor more than 5 parts of aggregate per part of cementitious material by volume.

(3) Mortar shall be applied over metal lath or masonry.

(4) Ceramic tile applied to a mortar base shall be thoroughly soaked and pressed into place forcing the mortar into the joints while the tile is wet.

##### 9.29.10.3. Adhesives

(1) Adhesives to attach ceramic and plastic tile shall be applied to the finish coat or brown coat of plaster that has been steel-trowelled to an even surface or to gypsum board or to masonry provided the masonry has an even surface.

##### 9.29.10.4. Moisture Resistant Backing

(1) Ceramic and plastic tile installed on walls around bathtubs or showers shall be applied over moisture resistant backing.

#### 9.29.10.5. Joints between Tiles and Bathtub

(1) The joints between wall tiles and a bathtub or shower shall be suitably caulked with material conforming to CAN/CGSB-19.22-M, "Mildew Resistant Sealing Compound for Tubs and Tile".

### Section 9.30. Flooring

#### 9.30.1. General

##### 9.30.1.1. Required Finish Flooring

(1) Finished flooring shall be provided in all *residential occupancies*.

##### 9.30.1.2. Water Resistance

(1) Finished flooring in bathrooms, kitchens, public entrance halls, laundry and general storage areas shall consist of resilient flooring, felted-synthetic-fibre floor coverings, concrete, terrazzo, ceramic tile, mastic or other types of flooring providing similar degrees of water resistance.

##### 9.30.1.3. Sleepers

(1) Wood sleepers supporting finished flooring over a concrete base supported on the ground shall be not less than 19 mm by 38 mm and shall be treated with a wood preservative.

##### 9.30.1.4. Finish Quality

(1) Finished flooring shall have a surface that is smooth, even and free from roughness or open defects.

#### 9.30.2. Panel-Type Underlay

##### 9.30.2.1. Required Underlay

(1) A panel-type underlay shall be provided under resilient flooring, parquet flooring, ceramic tile, felted-synthetic-fibre floor coverings or carpeting laid over lumber subflooring.

(2) A panel-type underlay shall be provided under resilient flooring, parquet flooring, felted-synthetic-fibre floor coverings or carpeting on panel-type subflooring whose edges are unsupported.

(3) Panel-type underlay shall be provided under resilient flooring on waferboard or strandboard subflooring.

(4) Panel-type underlay shall be provided under ceramic tile applied with adhesive.

##### 9.30.2.2. Materials and Thickness

(1) Panel-type underlay shall be not less than 6 mm thick and shall conform to

- (a) CAN/CGSB-11.3-M, "Hardboard",
- (b) CSA O115-M, "Hardwood and Decorative Plywood",
- (c) CSA O121-M, "Douglas Fir Plywood",
- (d) CSA O151-M, "Canadian Softwood Plywood",
- (e) CSA O153-M, "Poplar Plywood",
- (f) CAN3-O188.1-M, "Interior Mat-Formed Wood Particleboard", or

(g) CSA O437.0, "OSB and Waferboard"

(2) Reserved

### 9.30.2.3. Fastening

(1) Panel-type underlay shall be fastened to the subfloor with staples, annular grooved flooring nails or spiral nails, spaced not more than 150 mm o.c. along the edges and 200 mm o.c. both ways at other locations.

(2) Nails for panel-type underlay shall be not less than 19 mm long for 6 mm thick underlay and 22 mm long for 7.9 mm thick underlay.

(3) Staples for panel-type underlay shall

(a) have not less than a 1.2 mm shank diameter or thickness with a 4.7 mm crown, and

(b) be not less than

(i) 22 mm long for 6 mm underlay, and

(ii) 28 mm long for 7.9 mm and 9.5 mm underlay.

### 9.30.2.4. Joints Offset

(1) Where panel-type underlay is required to be installed over plywood, or OSB or waferboard, the joints in the underlay shall be offset at least 200 mm from the joints in the underlying subfloor.

### 9.30.2.5. Surface Defects

(1) Underlay beneath resilient or ceramic floors applied with an adhesive shall have all holes or open defects on the surface patched so that the defects will not be transmitted to the finished surface.

## 9.30.3. Wood Strip Flooring

### 9.30.3.1. Thickness

(1) The thickness of wood strip flooring shall conform to Table 9.30.3.1.

Table 9.30.3.1.

### Thickness of Wood Strip Flooring

Forming Part of Sentence 9.30.3.1.(1)

Type of Flooring	Max. Joist Spacing, mm	Minimum Thickness of Flooring, mm	
		With Subfloor	No Subfloor
Matched hardwood (interior use only)	400	7.9	19.0
	600	7.9	33.3
Matched softwood (interior or exterior use)	400	19.0	19.0
	600	19.0	31.7
Square edge softwood (exterior use only)	400	—	25.4
	600	—	38.1
Column 1	2	3	4

### 9.30.3.2. Strip Direction and End Joints

(1) Wood strip flooring shall not be laid parallel to lumber subflooring unless a separate underlay is provided.

(2) If wood strip flooring is applied without a subfloor, it shall be laid at right angles to the joists so that the end joints are staggered and occur over supports or are end matched.

(3) If the flooring is end matched, it shall be laid so that no 2 adjoining strips break joints in the same space between supports and each strip bears on no fewer than 2 supports.

### 9.30.3.3. Nailing

(1) When nails are used, wood strip flooring shall be toe nailed or face nailed with not less than 1 nail per strip at the spacings shown in Table 9.30.3.3., except that face nailed strips of more than 25 mm in width shall have at least 2 nails per strip.

Table 9.30.3.3.

### Nailing of Wood Strip Flooring

Forming Part of Sentence 9.30.3.3.(1)

Finish Floor Thickness, mm	Minimum Length of Flooring Nails, mm	Maximum Spacing of Flooring Nails, mm
7.9	38 <sup>(1)</sup>	200
11.1	51	300
19.0	57	400
25.4	63	400
31.7	70	600
38.1	83	600
Column 1	2	3

Note to Table 9.30.3.3.:

(1) See Article 9.30.3.4.

(2) Face nails shall be countersunk and the holes filled with suitable filler.

### 9.30.3.4. Staples

(1) Staples are permitted to be used to fasten wood strip flooring not more than 7.9 mm in thickness and not more than 50 mm in width provided the staples

(a) are not less than 29 mm long,

(b) have a shank diameter of not less than 1.19 mm,

(c) have a crown of not less than 4.7 mm, and

(d) are spaced not less than 400 mm o.c.

(2) Staples are permitted to be used to fasten wood strip flooring not more than 19 mm in thickness and not more than 83 mm in width provided the staples

(a) are not less than 51 mm long,

(b) have a shank diameter of not less than 1.82 mm,

(c) have a crown of not less than 12.7 mm, and

(d) are spaced not less than 400 mm o.c.

#### 9.30.4. Parquet Flooring

##### 9.30.4.1. Adhesive

(1) Adhesive used to attach parquet block flooring shall be suitable for bonding wood to the applicable subfloor material.

#### 9.30.5. Resilient Flooring

##### 9.30.5.1. Materials

(1) Resilient flooring used on concrete slabs supported on ground shall consist of asphalt, rubber, vinyl-asbestos, unbacked vinyl or vinyl with an inorganic type backing.

(2) Flooring described in Sentence (1) shall be attached to the base with a suitable waterproof and alkali-resistant adhesive.

#### 9.30.6. Ceramic Tile

##### 9.30.6.1. Application

(1) Ceramic tile shall be set in a mortar bed or applied to a sound smooth base with a suitable adhesive.

(2) Panel-type subfloor to which ceramic tile is to be applied with adhesive shall have its edges supported according to Article 9.23.14.3.

##### 9.30.6.2. Ceramic Tile Set in Mortar Bed

(1) When ceramic tile is set in mortar bed, the bed shall be not less than 32 mm thick. A 50 mm by 50 mm galvanized wire mesh shall be placed in the mortar bed, and asphalt sheathing paper, felt or polyethylene film shall be applied under the mortar bed when the mortar is applied over wood subfloors.

(2) The mortar bed described in Sentence (1) shall consist of by volume

(a) 1 part portland cement,

(b) 4 parts sand, and

(c) 1 part water.

(3) The tile joints for the ceramic tile in Sentence (1) shall be grouted with cement grout which shall be compressed into joints between the tiles and then wiped smooth.

##### 9.30.6.3. Reinforcement for Panel-Type Wood Sheathing

(1) Except as permitted in Article 9.30.6.4., when ceramic floor tiles are set on panel-type wood sheathing, one of the following assemblies for reinforcing the floor assembly shall be used

(a) 20 mm thick plywood or waferboard with all edges supported by at least 38 mm by 38 mm blocking with floor joists spaced not more than 400 mm o.c., with 6 mm underlay,

(b) sheathing with a thickness which conforms to Table 9.23.14.5.A. or a rating which complies to Table 9.23.14.5.B. and has an underlay consisting of 15.9 mm plywood or waferboard with offsetting joints, with a 4 mm gap between the sheets, or

(c) sub-floor sheathing reinforced with close spaced 38 mm by 38 mm blocking at spacings at least half that of the floor joist spacing.

##### 9.30.6.4. Ceramic Tile Applied to Mortar Bed with Adhesive

(1) When ceramic tile is applied to a mortar bed with adhesive, the bed shall be not less than 12.5 mm thick.

(2) The mortar bed described in Sentence (1) shall consist of by volume

(a) 1 part portland cement,

(b) 3 parts sand, and

(c) 1 part water.

(3) A double layer of galvanized diamond mesh wire lath shall be imbedded in the mortar bed with the top layer perpendicular to the bottom layer.

(4) Joints in the wire lath required by Sentence (3) shall be overlapped not less than 12 mm.

(5) The wire lath required in Sentence (1) shall be fastened to the subfloor with

(a) lath nails not less than 38 mm in length spaced not more than 150 mm o.c., or

(b) staples not less than 38 mm in length spaced not more than 150 mm o.c.

(6) Asphalt sheathing paper, felt or polyethylene film shall be applied between the mortar bed and the wood subfloor.

(7) Floor joists supporting the mortar bed described in Sentence (1) shall

(a) be spaced not more than 400 mm o.c., and

(b) have not less than two rows of 38 mm x 38 mm cross bridging.

(8) The tile joints for the ceramic tile in Sentence (1) shall be grouted with cement grout which shall be compressed into joints between the tiles and then wiped smooth.

#### Section 9.31. Plumbing Facilities

##### 9.31.1. Scope

###### 9.31.1.1. Application

(1) This Section applies to plumbing facilities and *plumbing systems* within *dwelling units* that are not within a *recreational camp* or a *camp for housing of workers*.

(2) Plumbing facilities other than those required in *dwelling units* shall conform to Subsection 3.7.4.

##### 9.31.2. General

###### 9.31.2.1. General

(1) The construction, extension, *alteration*, renewal or repair of *plumbing systems* and sewage disposal systems shall conform to Part 7.



**9.31.2.2. Corrosion Protection**

(1) Metal pipes in contact with cinders or other corrosive material shall be protected by a heavy coating of bitumen or other corrosion protection.

**9.31.2.3. Grab Bars**

(1) When provided, grab bars shall be capable of resisting a load of not less than 1.3 kN applied vertically or horizontally.

**9.31.3. Water Supply and Distribution****9.31.3.1. Required Water Supply**

(1) Reserved

**9.31.3.2. Required Connections**

(1) In a *dwelling unit* with a *water distribution system*, piping for hot and cold water shall be connected to every kitchen sink, lavatory, bathtub, shower, slop sink and laundry area.

(2) Piping for cold water shall be run to every water closet and hose bib.

**9.31.4. Required Facilities****9.31.4.1. Required Fixtures**

(1) In a *dwelling unit* with a *water distribution system*, a kitchen sink, lavatory, bathtub or shower stall and water closet shall be provided.

**9.31.4.2. Laundry Fixtures**

(1) Laundry facilities or a space for laundry facilities shall be provided in every *dwelling unit* or grouped elsewhere in the *building* in a location conveniently accessible to occupants of every *dwelling unit*.

**9.31.4.3. Hot Water Supply**

(1) In a *dwelling unit* with a *water distribution system*, a hot water supply shall be provided.

(2) The hot water to bathtubs, showers and hand basins that are accessible to residents of a group home, a home for special care or a residence for developmentally-handicapped adults shall have one or more temperature gauges and control devices that are

- (a) accessible only to supervisory staff, and
- (b) capable of being adjusted to ensure that the temperature of the water supply to the fixtures does not exceed 49°C.

**9.31.4.4. Floor Drains**

(1) A floor drain shall be installed in a *basement* forming part of a *dwelling unit*.

(2) Where gravity drainage to a *sanitary drainage system* is possible, the floor drain in Sentence (1) shall be connected to the *sanitary drainage system*.

(3) Where gravity drainage to a *sanitary drainage system* is not possible, the floor drain in Sentence (1) is permitted to be connected to a *storm drainage system*, dry well or drainage ditch.

(4) A floor drain shall be provided in a public laundry room, garbage room, incinerator room, *boiler* or heating room, serving more than one *dwelling unit*.

**9.31.4.5. Required Facilities at Recreational Camps and a Camp for Housing of Workers**

- (1) A minimum of one water closet or privy shall be provided
  - (a) for every ten campers of each sex in a recreational camp, and
  - (b) for every ten employees of each sex in a *camp for housing of workers*.

(2) In *recreational camps* and a *camp for housing of workers*, at least two lavatories or provision for a pail or other portable container of sound construction shall be provided for each of the water closets or privies required in Sentence (1).

(3) A *camp for housing of workers* shall

- (a) have at least one shower or other area of bathing, and
- (b) provide for at least one washing machine or laundry tub for every fifteen beds.

**9.31.5. Reserved****9.31.6. Service Water Heating Facilities****9.31.6.1. Hot Water Temperature**

(1) Where a hot water supply is required by Article 9.31.4.3., equipment shall be installed to provide to every *dwelling unit* an adequate supply of service hot water with a temperature range from 45°C to 60°C.

**9.31.6.2. Supply Source**

(1) Service hot water is permitted to be distributed from a centrally located heater to supply the entire *building* or may be supplied by an individual *service water heater* for each *dwelling unit*.

**9.31.6.3. Equipment and Installation**

(1) Every *service water heater* and its installation shall conform to Part 7.

(2) Reserved

(3) Where a *building* is located in seismic zone 4, 5, or 6, *service water heaters* shall be anchored to the structure to prevent overturning or breaking of gas, oil or electrical lines.

**9.31.6.4. Corrosion-Resistant Coating**

(1) Where storage tanks for *service water heaters* are steel, they shall be coated with zinc, vitreous enamel (glass lined), hydraulic cement or other corrosion-resistant material.

**9.31.6.5. Fuel-Burning Heaters**

(1) Fuel-burning *service water heaters* shall be connected to a *chimney flue* conforming to Section 9.21.

**9.31.6.6. Heating Coils**

(1) Heating coils of *service water heaters* shall not be installed in a *flue* or in the combustion chamber of a *boiler* or furnace heating a *building*.

**Section 9.32. Ventilation****9.32.1. General****9.32.1.1. Application**

(1) This Section applies to the ventilation of rooms and spaces in *residential occupancies* by natural ventilation and to self-contained mechanical ventilation systems serving only one *dwelling unit*.

(2) Mechanical ventilation systems, other than self-contained systems serving single *dwelling units*, shall conform to Part 6.

(3) Ventilation of rooms and spaces in other than *residential occupancies* shall conform to Part 6.

(4) A *storage garage* for more than 5 cars shall be ventilated in accordance with Part 6.

**9.32.1.2. Mechanical Ventilation for Dwelling Units**

(1) Every *dwelling unit* that is supplied with electrical power shall be provided with a mechanical ventilation system in accordance with Subsection 9.32.3.

**9.32.1.3. Ventilation of Rooms and Spaces**

(1) Except as permitted in Sentence (2), rooms or spaces in a *dwelling unit* shall be ventilated by natural means in accordance with Subsection 9.32.2.

(2) The natural ventilation of rooms or spaces required in Sentence (1) may be provided by mechanical means.

(3) Where a room or space is not provided with natural ventilation as described in Sentence (1), mechanical ventilation shall be provided to exhaust inside air from or to introduce outside air to that room or space at the rate of one-half air change per hour if the room or space is mechanically cooled in summer, and one air change per hour if it is not.

**9.32.2. Natural Ventilation****9.32.2.1. Natural Ventilation Area**

(1) The unobstructed openable ventilation area to the outdoors for rooms and spaces in residential *buildings* ventilated by natural means shall conform to Table 9.32.2.1.

**Table 9.32.2.1.****Natural Ventilation**

Forming Part of Sentence 9.32.2.1.(1)

Location		Minimum Unobstructed Area
Within <i>dwelling unit</i>	Bathrooms or water closet rooms	0.09 m <sup>2</sup>
	Unfinished <i>basement</i> space	0.2 per cent of the floor area
	Dining rooms, living rooms, bedrooms, kitchens, combined rooms, dens, recreation rooms and all other finished rooms	0.28 m <sup>2</sup> per room or combination of rooms

Other than within <i>dwelling unit</i>	Bathrooms or water closet rooms	0.09 m <sup>2</sup> per water closet
	Sleeping areas	0.14 m <sup>2</sup> per occupant
	Laundry rooms, kitchens, recreation rooms	4 per cent of the floor area
	Corridors, storage rooms and other similar public rooms or spaces	2 per cent of the floor area
	Unfinished <i>basement</i> space not used on a shared basis	0.2 per cent of the floor area
Column 1	2	3

(2) Where a vestibule opens directly off a living or dining room within a *dwelling unit*, ventilation to the outdoors for such rooms may be through the vestibule.

**9.32.2.2. Protection from Weather and Insects**

(1) Openings for natural ventilation other than windows shall be constructed to provide protection from the weather and insects.

(2) Screening shall be of rust-proof material.

**9.32.3. Mechanical Ventilation****9.32.3.1. General**

(1) For the purposes of this Subsection a non-solid fuel-fired *appliance* shall be classified as

- direct vented whereby the combustion air is supplied directly from the outdoors to the combustion chamber via a sealed passageway, and the products of combustion are exhausted directly outdoors through an independent sealed vent,
- mechanically vented induced draft whereby combustion air is supplied from within the *building* envelope and the products of combustion are positively conveyed to the outdoors by means of a dedicated sealed vent, or
- natural draft whereby combustion air is supplied from within the *building* envelope and the products of combustion are conveyed to the outdoors through a *chimney* or Type B vent.

(2) For the purposes of this Subsection a *dwelling unit* shall be categorized as

- Type I when
  - all fuel-fired combustion *appliances* located in the *dwelling unit* are direct vented or except for fireplaces, are mechanically vented induced draft, and
  - the *dwelling unit* does not contain a solid fuel-fired combustion *appliance*,
- Type II when a solid fuel-fired combustion *appliance* is installed in a Type I *dwelling unit*,
- Type III when a mechanically vented induced draft non-solid fuel-fired fireplace or a natural draft *appliance* is present, or

(d) Type IV when *electric space heating* is present.

### 9.32.3.2. Required Mechanical Ventilation

(1) The mechanical ventilation system required in Article 9.32.1.2. shall comply with

- (a) Part 6, or
- (b) this Subsection for a mechanical ventilation system in a Type I, Type II or Type IV *dwelling unit*.

### 9.32.3.3. Total Ventilation Capacity

(1) The minimum total ventilation capacity of the ventilation system required in Clauses 9.32.3.2.(1)(b) shall be the sum of the individual room capacities given in Table 9.32.3.3.

**Table 9.32.3.3.**

#### Ventilation Capacity

Forming Part of Sentence 9.32.3.3.(1)

Room	Capacity, L/s
Master bedroom <sup>(1)</sup>	10
Other bedrooms	5
Living room <sup>(2)</sup>	5
Dining room <sup>(2)</sup>	5
Kitchen	5
Family Room <sup>(2)</sup>	5
Recreation room	5
Basement <sup>(3)</sup>	10
Other habitable rooms <sup>(4)</sup>	5
Bathroom or water closet room	5
Laundry room	5
Utility room	5
Column 1	2

#### Notes to Table 9.32.3.3.:

- (1) At least one bedroom in each *dwelling unit* shall be designated as the master bedroom.
- (2) Ventilation capacities assigned to any combined living/dining or family/dining space shall be determined as if the spaces were individual rooms.
- (3) Where a *basement* incorporates rooms of the types designated in this Table, the assigned ventilation capacities for each room shall be as specified for those types of rooms. *Basement* areas used for other purposes that exceed 2/3 of the total *basement* floor area shall be assigned a fan capacity of 10 L/s. Those that are less than 2/3 of the total floor area shall be assigned 5 L/s.
- (4) Other habitable rooms shall be assigned a ventilation capacity of 5 L/s. This does not include spaces intended solely for access, egress, storage or service equipment.

### 9.32.3.4. Principal Exhaust

(1) A principal exhaust fan shall be installed and shall be rated to provide not less than the capacity given in Table 9.32.3.4.A.

**Table 9.32.3.4.A.**

#### Principal Exhaust Fan Capacity

Forming Part of Sentence 9.32.3.4.(1)

Number of Bedrooms in <i>Dwelling Unit</i>	Capacity, L/s
1	15
2	22.5
3	30
4	37.5
More than 4	Part 6 design
Column 1	2

(2) Except as permitted in Sentence (3), the principal exhaust fan shall be controlled by a manual switch.

(3) A principal exhaust fan required under this Article may be controlled by a dehumidistat or other automatic control device where the manual switch required in Sentence (2) is capable of activating the fan regardless of the setting of the automatic control.

(4) The switches required in Sentences (2) and (3) shall be centrally located in the *dwelling unit* and shall be identified with the words VENTILATION FAN.

(5) The principal exhaust required in this Article may be provided by means of a heat recovery ventilator installed in accordance with Article 9.32.3.11.

(6) Where the installed capacity of the principal exhaust fan exceeds the minimum capacity required in Sentence (1) by more than 50%, the control required in Sentence (2) shall include provision to allow reduction of the flow to within  $\pm 10\%$  of the minimum capacity specified in Sentence (1).

(7) Where an exhaust air intake for the principal exhaust fan is connected directly to the duct system of a forced air heating system or other central air circulating system, it shall

- (a) be connected to the return air side of the system, and
- (b) be connected not less than 1 000 mm upstream from any outdoor air supply duct.

(8) Where an exhaust air intake for the principal exhaust fan is located in the kitchen, it shall be located in the ceiling or on the wall within 300 mm of the ceiling.

(9) Single or multiple *exhaust ducts* serving the principal exhaust fan required by Sentence (1) shall be sized according to Part 6 except that they may be sized according to Table 9.32.3.4.B. where

- (a) the longest total duct length, from intake grille to outdoor hood, does not exceed 12 m, and
- (b) the number of elbows does not exceed 4,

but, in any case, they shall not be smaller than recommended by the manufacturer of the fan.



Table 9.32.3.4.B.

## Principal Exhaust Duct Size

Forming Part of Sentence 9.32.3.4.(9)

Number of Bedrooms in Dwelling Unit	Minimum Exhaust Duct Diameter			
	Ducts Connected to Inlet and Outlet of Principal Exhaust Fan		Ducts Connected to One Side Only of Principal Exhaust Fan	
	Smooth Duct, mm	Flexible Duct, mm	Smooth Duct, mm	Flexible Duct, mm
1	100	125	100	125
2	125	150	125	150
3	125	150	150	175
4	150	175	150	175
More than 4	Part 6 Design	Part 6 Design	Part 6 Design	Part 6 Design
Column 1	2	3	4	5

(10) In applying Table 9.32.3.4.B.

Table 9.32.3.5.

## Kitchen, Bathroom and Water Closet Room Exhaust Duct Size

Forming Part of Sentence 9.32.3.5.(4)

(a) where there is more than one exhaust air inlet duct connected directly to the fan, the diameter of the inlet ducts may be decreased by 25 mm, and

(b) where the *exhaust duct* is connected to the duct system of a forced air heating system, the duct diameter shall be increased by 25 mm.

## 9.32.3.5. Supplemental Exhaust

(1) Additional supplemental exhaust capacity shall be installed as necessary so that the total capacity of all kitchen, bathroom, water closet room and other supplemental exhaust air inlets is not less than the total ventilation capacity, as required in Article 9.32.3.3., minus the principal exhaust fan capacity, as required in Article 9.32.3.4.

(2) An exhaust air intake shall be installed in each kitchen, bathroom and water closet room.

(3) Where the intake for a supplemental exhaust fan other than a range hood or range-top fan is installed in a kitchen, it shall be installed in the ceiling or on the wall within 300 mm of the ceiling.

(4) *Exhaust ducts* serving the required kitchen, bathroom, water closet room and other supplemental exhaust air inlets shall be sized according to Part 6 except that they may be sized according to Table 9.32.3.5. where

(a) the total duct length does not exceed 9 m, and

(b) the number of elbows does not exceed 4,

but, in any case, they shall not be smaller than recommended by the manufacturers of the fans.

Fan Capacity, L/s	Minimum Exhaust Duct Diameter <sup>(1)</sup>	
	Ducts Connected to Inlet & Outlet of Exhaust Fan, mm	Ducts Connected to One Side Only of Exhaust Fan, mm
25	125	125
50	150	150
Column 1	2	3

## Note to Table 9.32.3.5.:

(1) Where flexible duct is used, the duct diameter shall be increased by 25 mm.

(5) A supplemental exhaust fan required by this Article shall be provided with a manual switch located in the same room as the exhaust air inlet.

(6) Where a supplemental fan required by this Article is controlled by a dehumidistat or other automatic control in addition to the manual switch required by Sentence (5), the manual switch shall be capable of activating the fan regardless of the setting of the automatic control.

(7) Supplemental exhaust required in this Article may be provided by means of a heat recovery ventilator installed in accordance with Article 9.32.3.11.

## 9.32.3.6. Ventilation Systems Coupled with Forced Air Heating Systems

(1) This Article applies to a mechanical ventilation system in a *dwelling unit* that contains a forced air heating system and the forced air heating system is used for delivery of ventilation air.

(2) In a Type I *dwelling unit*, a ventilation supply inlet is not required.

(3) In a Type II *dwelling unit*, the mechanical ventilation system shall include a heat recovery ventilator, coupled to the forced air heating system, installed in accordance with Article 9.32.3.11.

(4) The forced air heating system circulation fan shall be controlled by a manual switch located adjacent to the ventilation fan switch required in Sentence 9.32.3.4.(4).

(5) The switch required in Sentence (4) shall be identified by the words **CIRCULATION FAN**.

#### 9.32.3.7. Ventilation Systems Not Coupled with Forced Air Heating Systems

(1) This Article applies to a mechanical ventilation system in a *dwelling unit* that

- (a) does not contain a forced air heating system, or
- (b) contains a forced air heating system and the forced air heating system is not used for circulation of the ventilation air.

(2) The mechanical ventilation system shall introduce air to and circulate air throughout the *dwelling unit* in compliance with this Article.

(3) The mechanical system in this Article shall include a heat recovery ventilator installed in accordance with Article 9.32.3.11.

(4) Outdoor air shall be distributed by a ductwork system from the heat recovery ventilator required in Sentence (3) to each bedroom, to any *storey* without a bedroom and, if there is no *storey* without a bedroom, to the principal living area.

(5) A *supply duct* from the outdoors to the heat recovery ventilator required and a main distribution trunk duct shall be provided and shall be sized according to Part 6, except that, the *supply duct* and the main distribution trunk duct may be sized according to Table 9.32.3.7.A. where

- (a) the total duct length from the outdoor hood to any supply register does not exceed 21 m, and
- (b) the total number of fittings does not exceed 8.

Table 9.32.3.7.A.

#### Minimum Outdoor Air Supply and Main Trunk Duct Sizes

Forming Part of Sentence 9.32.3.7.(5)

Number of Bedrooms in Dwelling Unit	Minimum Outdoor Air Supply and Main Distribution Trunk Duct Diameter, mm
1	150
2	150
3	175
4	175
More than 4	Part 6 design
Column 1	2

(6) The outside air *supply duct* required by Sentence (5) shall not be considered to provide combustion and/or dilution air to fuel-burning appliances.

(7) Branch *supply ducts* leading from the main distribution trunk duct required by Sentence (5) to the rooms to which outdoor air is to be distributed shall be provided and shall be sized according to Part 6

except that the branch *supply ducts* may be sized according to Table 9.32.3.7.B where

- (a) the total duct length from outdoor hood to supply register does not exceed 21 m, and
- (b) the total number of fittings does not exceed 8.

Table 9.32.3.7.B.

#### Minimum Branch Supply Duct Sizes

Forming Part of Sentence 9.32.3.7.(7)

Room, Space or Storey Served	Minimum Branch Supply Duct Diameter	
	1 and 2 Bedroom Dwelling Units, mm	3 and 4 Bedroom Dwelling Units, mm
Master bedroom	100	100
Other bedrooms	75	75
Storey with no bedrooms or living area	75	100
Column 1	2	3

(8) In applying Sentence (7), where the *dwelling unit* has more than 4 bedrooms, ducting shall be sized according to Part 6.

(9) All branch *supply ducts* which are not fitted with diffusers with adjustable balance stops shall be supplied with accessible dampers which can be adjusted and fixed in their adjusted positions and which include devices to indicate the positions of the dampers.

(10) Provision shall be made for the free flow of air to all rooms by leaving gaps beneath doors, using louvred doors or installing grilles in doors.

#### 9.32.3.8. Protection Against Depressurization

(1) When determining the need to provide protection against depressurization, consideration must be given to

- (a) whether the presence of soil gas is deemed to be a problem, and
- (b) the presence of solid fuel-fired combustion appliances.

(2) Where a solid fuel-fired combustion appliance is installed, a carbon monoxide detector shall be installed in conformance with Sentences (3), (4) and (5).

(3) A carbon monoxide detector conforming with CAN/CGA-6.19, "Residential Carbon Monoxide Detectors", or UL 2034, "Single and Multiple Station Carbon Monoxide Detectors", shall be installed on or near the ceiling in each room in which there is installed a solid fuel-burning appliance.

(4) The carbon monoxide detector required by Sentence (3) shall be permanently connected to an electrical circuit and shall have no disconnect switch between the overcurrent device and the carbon monoxide detector.

(5) The carbon monoxide detector required by Sentence (3) shall

- (a) be wired so that its activation will activate the *smoke alarm* system required by Subsection 9.10.18., or
- (b) be equipped with an alarm that is audible within bedrooms when the intervening doors are closed.

(6) Where a solid fuel-fired combustion *appliance* is installed, the ventilation system shall include a heat recovery ventilator which is designed to operate so that the flow of exhaust air does not exceed the flow of intake air in any operating mode, and which complies with the requirements of Article 9.32.3.11.

#### 9.32.3.9. Fan Ratings

(1) Except as provided in Sentence (3), capacity and sound ratings for required fans shall be determined in accordance with CAN/CSA-C260, "Rating the Performance of Residential Mechanical Ventilating Equipment".

(2) Capacity ratings for required fans shall be based on a static pressure differential of 50 Pa, 25 Pa or 7.5 Pa depending on whether the fan is installed with ductwork connected on both sides, one side or neither side, respectively.

(3) Except for heat recovery ventilators, exhaust fans required to make up any part of the total ventilation capacity required by Article 9.32.3.3. shall have a sound rating not less than that specified in Table 9.32.3.9.

**Table 9.32.3.9.**

#### Fan Sound Rating

Forming Part of Sentence 9.32.3.9.(3)

Type of Fan	Maximum Sound Ratings	
	Sone	dBA
Principal exhaust	2.5	55
Kitchen	3.5	60
Bathroom or water closet room	2.5	55
Supply	2.5	55
Column 1	2	3

(4) Required fans shall be installed according to the manufacturer's instructions.

(5) Mechanical ventilation devices shall conform to CSA-C22.2 No. 113, "Fans and Ventilators".

#### 9.32.3.10. Ducts

(1) Ventilation ducts shall conform to the requirements of Part 6 for *supply ducts* except that *exhaust ducts* that serve only a bathroom or

water closet room may be of *combustible* material provided the duct is reasonably airtight and constructed of a material impervious to water.

(2) *Exhaust ducts* shall not discharge into heated or unheated enclosed spaces.

(3) Where an *exhaust duct* passes through or is adjacent to unheated space, the duct shall be insulated to not less than RSI 0.5.

(4) Where a *supply duct* carrying outdoor air that is not tempered or not mixed with indoor air passes through heated space, it shall be insulated to not less than RSI 0.5 except that, where such a duct is exposed in the heated space for more than 3 m of length in the heated space, it shall be insulated to not less than the values listed in Table 9.32.3.10.A.

**Table 9.32.3.10.A**

#### Insulation of Fresh Air Supply Ducts

Forming Part of Sentence 9.32.3.10.(4)

Outside Winter Design Temperature as per Article 2.5.1.1.(1), °C	Minimum Thermal Resistance, RSI
-7 to -11	0.5
-12 to -17	0.9
-18 to -24	1.2
-25 to -29	1.4
-30 to -34	1.8
-35 and colder	2.1
Column 1	2

#### Note to Table 9.32.3.10.A:

(1) The outside winter design temperatures shall be those listed for the January 2.5 per cent values.

(5) A kitchen *exhaust duct* not equipped with a filter at the inlet end shall be designed and installed so that the entire duct can be cleaned.

(6) Ductwork for range hoods and range-top fans shall be of *noncombustible*, corrosion-resistant material and shall lead directly to the outdoors without connection to other exhaust fans or ducts.

(7) Ductwork for range hoods and range-top fans shall be equipped with a grease filter at the intake.

(8) All ductwork shall be permanently supported or clipped to prevent sagging, excessive movement and vibration.

(9) All ducting connected to supply and exhaust fans shall be constructed so as to inhibit air leakage at joints.

(10) Where rectangular duct is used in place of round duct, it shall be selected according to Table 9.32.3.10.B.



Table 9.32.3.10.B

## Equivalent Duct Sizes

Forming Part of Sentence 9.32.3.10.(10)

Required Round Duct Size, mm	Permitted Equivalent Rectangular Duct Size, mm			
	Stack Duct	100 mm Depth	125 mm Depth	150 mm Depth
75	82 × 250	57 × 100		
100	82 × 250	89 × 100		
125	82 × 250	125 × 100	75 × 125	75 × 150
150	82 × 300	200 × 100	100 × 125	89 × 150
175	82 × 350	275 × 100	150 × 125	125 × 150
More Than 175	Part 6 Design	Part 6 Design	200 × 125	175 × 150
			Part 6 Design	Part 6 Design
Column 1	2	3	4	5

## 9.32.3.11. Heat Recovery Ventilators

(1) Where a heat recovery ventilator is installed to provide all or part of the requirements of this Subsection, this Article shall apply.

(2) Heat recovery ventilators shall be designed to provide a minimum 55% sensible heat recovery efficiency when tested to the low temperature thermal and ventilation performance test method set out in CAN/CSA-439-M, "Standard Methods of Test for Rating the Performance of Heat Recovery Ventilators", at a Station 1 test temperature of -25°C at an air flow not less than 30 L/s.

(3) Where a heat recovery ventilator is connected to a forced air heating system, the supply side of the ventilator shall be directly connected to the return air side of the forced air heating system.

(4) Two or more heat recovery ventilators shall not be connected in parallel air flow to a common air *supply duct* unless specifically recommended by the manufacturer.

(5) Two or more heat recovery ventilators shall not be connected in parallel air flow to a common downstream *exhaust duct*.

(6) Heat recovery ventilators installed in unheated spaces shall be installed so as to avoid condensation of moisture on fans and motors in exhaust air, in accordance with the manufacturer's instructions.

(7) All start-up procedures recommended by the manufacturer including air balancing and air-flow determination shall be followed.

(8) Free flow of condensate shall be provided in accordance with the manufacturer's recommendations or, in their absence, a condensate drain of minimum 1/2 inch nominal pipe size pitched in the direction of flow and complete with a trap or condensate pump with sufficient capacity shall be installed.

(9) The heat recovery ventilator and all condensate lines shall be installed in a space where the ambient temperature will not adversely affect the operation of the system.

(10) When operating at the rate required in Article 9.32.3.4., the supply and exhaust airflow rates of the heat recovery ventilator shall be balanced so that the value of the lesser flow shall be at least 90% of the value of the greater flow, unless otherwise recommended by the manufacturer.

## 9.32.3.12. Outdoor Intake and Exhaust Openings

(1) Separate air intake and exhaust outlet openings, when located on the same wall or roof, shall be installed so as to avoid contamination of the ventilation air by the exhaust air.

(2) Intake openings shall be located so as to avoid contamination of the ventilation air from other local sources such as automobile exhausts and exhaust from adjacent *buildings*.

(3) The distance from the bottom of an air intake opening to finished ground level or to any nearer and lower permanent horizontal surface shall be not less than 450 mm or the depth of expected snow accumulation, whichever is greater.

(4) The distance separating air intakes from *building* envelope penetrations that are potential sources of contaminants, such as *gas vents* or oil fill pipes, shall be not less than 900 mm.

(5) Air intakes shall be clearly labelled as such for identification from locations outside the *dwelling unit*.

(6) The distance from the bottom of an exhaust outlet to finished ground level or to any nearer and lower permanent horizontal surface shall be not less than 100 mm.

(7) Where air intake and exhaust openings are in exposed locations, provision shall be made to protect them from the entry of precipitation by the use of louvers, weather cowls or other suitable protection.

(8) Air intake openings shall incorporate screens or grilles to protect against the entry of animals and insects.

(9) Except for exhaust outlets serving heat recovery ventilators, exhaust outlets shall incorporate backdraft dampers.

(10) Where a backdraft damper required by Sentence (9) is not located at the *building* envelope, the exhaust outlet shall incorporate a screen, located at the *building* envelope, to protect against the entry of animals.

(11) Where a screen or grille required by Sentences (8) and (10) has a mesh size of less than 6 mm, the screen or grille shall be removable for cleaning.

(12) The gross area of the screens or grilles installed in intake and exhaust openings shall be three times that of the duct served.

(13) Screens and grilles shall be of corrosion-resistant material.

(14) The net free area of an air intake or exhaust outlet shall be equal to or greater than the cross-sectional area of the duct served.

**9.32.3.13. Installation**

(1) Installation of fans and heat recovery ventilators shall be in accordance with manufacturer's instructions for minimizing noise and vibration transmission and achieving the required sound rating.

(2) Where flow-regulating dampers are required, they shall be adjustable and accessible without requiring the removal of fans, motors, or insulating materials and without the need for specialized tools.

(3) Ventilation equipment shall be accessible for inspection, maintenance, repair and cleaning.

(4) Ventilation equipment installed in unheated spaces shall be installed so as to avoid condensation of moisture on fans and motors in accordance with the manufacturer's instructions.

**Section 9.33. Heating and Air-Conditioning****9.33.1. General****9.33.1.1. Design and Installation Requirements**

(1) The design and installation of central heating systems including requirements for combustion air, shall conform to the requirements in Part 6 and to this Section.

(2) The design and installation of *air-conditioning* systems shall conform to Part 6.

(3) Repairs, adjustments or component replacements that change the capacity or extent of safety of an existing heating, ventilating or *air-conditioning* system and that alter the method of operation shall conform to this Code.

**9.33.1.2. Solid Fuel-Burning Appliances**

(1) The design and installation of solid-fuel burning *stoves, ranges* and *space heaters*, including the requirements for combustion air, shall conform to CAN/CSA-B365-M, "Installation Code for Solid-Fuel Burning Appliances and Equipment".

**9.33.2. Required Heating Systems**

(1) Residential *buildings* intended for use in the winter months on a continuing basis shall be equipped with heating facilities conforming to this Section.

**9.33.3. Design Temperatures****9.33.3.1. Indoor Design Temperatures**

(1) At the outside design temperature, required heating facilities shall be capable of maintaining an indoor air temperature of not less than

- (a) 22°C in all living spaces,
- (b) 22°C in unfinished *basements*, and
- (c) 15°C in heated crawl spaces.

**9.33.3.2. Outdoor Design temperatures**

(1) The outdoor conditions to be used in designing heating, ventilating and *air-conditioning* systems shall be the appropriate values

for the Municipality as set out in Section 2.5 Climatic Data, using 2.5 per cent design temperature criteria.

**Section 9.34. Electrical Facilities****9.34.1. General****9.34.1.1. Reserved****9.34.1.2. Required Facilities**

(1) Where electrical services are available, electrical facilities shall be provided for every *building* in conformance with this Section.

**9.34.1.3. Location of Equipment in Public Areas**

(1) Entrance switches, meters, panel boxes, splitter boxes, time clocks and other similar equipment shall not be located in any public area unless adequate precautions are taken to prevent interference with the equipment.

**9.34.1.4. Recessed Lighting Fixtures**

(1) Recessed lighting fixtures shall not be located in insulated ceilings unless the fixtures are designed for such installations.

**9.34.1.5. Wiring and Cables**

(1) Except for *dwelling units* and except as required in Sentence (2), electrical wiring and cables installed in *buildings* permitted to be of *combustible construction* shall conform to Sentence 3.1.4.3.(1).

(2) Where a concealed space in a floor or ceiling assembly is used as a *plenum*, electrical wiring and cables within the *plenum* shall conform to Sentence 3.6.4.3.(1).

**9.34.2. Lighting Outlets****9.34.2.1. Lighting of Entrances**

(1) An exterior lighting outlet with fixture controlled by a wall switch located within the *building* shall be provided at every entrance to *buildings* of *residential occupancy*.

**9.34.2.2. Outlets in Dwelling Units**

(1) Except as provided in Sentence (2), a lighting outlet with fixture controlled by a wall switch shall be provided in kitchens, bedrooms, living rooms, utility rooms, laundry rooms, dining rooms, bathrooms, water-closet rooms, vestibules and hallways in *dwelling units*.

(2) Where a receptacle controlled by a wall switch is provided in bedrooms or living rooms, such rooms need not conform to the requirements of Sentence (1).

**9.34.2.3. Stairways**

(1) Every stairway shall be lighted.

(2) Except as provided in Sentence (3), 3-way wall switches located at the head and foot of every stairway shall be provided to control not less than one lighting outlet with fixture for stairways with 4 or more risers in *dwelling units*.

(3) The stairway lighting for *basements* that do not contain finished space or lead to an outside entrance or built-in garage and which serve not more than one *dwelling unit* is permitted to be controlled by a single switch located at the head of the stairs.

**9.34.2.4. Basements**

(1) A lighting outlet with fixture shall be provided for each 30 m<sup>2</sup> or fraction thereof of floor area in unfinished *basements*.

(2) The outlet required in Sentence (1) nearest the stairs shall be controlled by a wall switch located at the head of the stairs.

**9.34.2.5. Storage Rooms**

(1) A lighting outlet with fixture shall be provided in storage rooms.

**9.34.2.6. Garages and Carports**

(1) A lighting outlet with fixture shall be provided for an attached, built-in or detached garage or carport.

(2) Except as provided in Sentence (3), lighting outlets required in Sentence (1) shall be controlled by a wall switch near the doorway.

(3) Where the lighting outlet and fixture required in Sentence (1) are ceiling mounted above an area not normally occupied by a parked car; or are wall mounted, a fixture with a built-in switch is permitted to be used.

(4) Where a carport is lighted by a light at the entrance to a *dwelling unit*, additional carport lighting is not required.

**9.34.2.7. Public and Service Areas**

(1) Every public or service area in *buildings*, including a *recreational camp* and a *camp for housing of workers*, shall have lighting outlets with fixtures controlled by a wall switch or panel.

(2) When provided by incandescent lighting, illumination required in Sentence (1) shall conform to Table 9.34.2.7.

(3) When other types of lighting are used, illumination equivalent to that shown in Table 9.34.2.7. shall be provided.

**Table 9.34.2.7.****Lighting for Public Areas**

Forming Part of Sentences 9.34.2.7.(2) and (3)

Room or Space	Minimum Illumination, lx	Minimum Lighting Power Density, W/M <sup>2</sup> of floor area (incandescent lighting)
Storage rooms	50	5
Service rooms and laundry areas	200	20
Garages	50	5
Public water-closet rooms	100	10
Service hallways and stairways	50	5
Recreation rooms	100	10

Recreational camps and camps for housing of workers		
hallways, corridors, stairways and sleeping areas	100	10
Kitchen	500	50
All other rooms	250	25
Column 1	2	3

**9.34.3. Emergency Lighting****9.34.3.1. Emergency Lighting**

(1) Emergency lighting shall conform to Subsection 9.9.11.

**9.34.4. Service Entrance Requirements****9.34.4.1. Meter Mounting Device**

(1) Except in the case of externally mounted read-outs, each new residential consumer service of 200 amperes or less shall have a meter mounting device located outdoors in an accessible location.

(2) For the purposes of this Subsection, the front of the *building* is the side nearest the utility distribution line.

**9.34.4.2. Location of Meter Mounting Device**

(1) Meter mounting devices shall be installed on the wall of the *building* or where that is not possible, on a separate support, so that the midpoint of the meter after installation will be 1 750 mm  $\pm$  100 mm from finished *grade*.

(2) Meter mounting devices shall be located not more than 3 m back from the front of the single family and semi-detached homes.

**9.34.4.3. Location of Consumer Service Standpipe**

(1) For an underground supply, the bottom of the consumer service standpipe shall be located not more than 3 m from the corner of the *building*.

(2) For an overhead supply, the top of the consumer service standpipe shall be located not more than 3 m from the corner of the *building* except that where this location does not permit a 4.5 m clearance at the point of attachment of the service conductors to the *building*, the top of the standpipe may be extended to a point not more than half way along the *building*.

**9.34.4.4. Meter Mounting Device**

(1) The meter mounting device shall be

- (a) one hundred ampere capacity except when the service equipment is to be greater,
- (b) standardized for each service size, and
- (c) capable of accepting 2 in. IPS conduit of steel, aluminum, copper or PVC if intended for underground service entrance.

**9.34.4.5. Underground Service**

(1) For consumer services supplied underground

- (a) a 2 in. IPS steel, aluminum, copper or PVC conduit shall be attached to the bottom of the meter-mounting device and shall terminate in the earth at a point at least 900 mm below *grade* and



a conduit bushing shall be attached to the conduit in the earth, and

- (b) the conductors on the line side of the meter and those on the load side of the meter shall not be installed in the same conduit.

### Section 9.35. Garages and Carports

#### 9.35.1. Scope

##### 9.35.1.1. Application

(1) This Section applies to garages and carports serving not more than 1 *dwelling unit*.

##### 9.35.1.2. Construction Requirements

(1) The construction of a garage or carport shall conform to the requirements for other *buildings* in this Part except as provided in this Section.

#### 9.35.2. General

##### 9.35.2.1. Carport Considered to be Garage

(1) Where a roofed enclosure used for the storage or parking of motor vehicles has more than 60 per cent of the total perimeter enclosed by walls, doors or windows, the enclosure shall be considered a garage.

##### 9.35.2.2. Garage Floor

(1) Where an attached or built-in garage is provided, the garage floor shall be sloped to drain liquids to the outdoors.

#### 9.35.3. Foundations

##### 9.35.3.1. Foundation Required

(1) Except as permitted in this Subsection, *foundations* conforming to Sections 9.12. and 9.15. shall be provided for the support of carport and garage super-structures, including that portion beneath garage doors.

##### 9.35.3.2. Protection from Damage due to Soil Movement

(1) In clay-type *soils* subject to significant movement with a change in *soil* moisture content, the *foundation* depth of carports or garages connected to a *dwelling unit* directly or by a breezeway shall be approximately the same depth as the main *building foundation*.

(2) Where slab-on-ground construction is used, a construction joint shall be provided between the main *building* slab and the garage or breezeway or carport slab.

(3) Except as provided in Section 9.12., *foundations* for attached unheated garages or carports shall be below frost level.

##### 9.35.3.3. Small Garages

(1) Detached garages of less than 50 m<sup>2</sup> floor area and not more than 1 *storey* in height may be supported on wood mud sills provided the garage is not of masonry or masonry veneer construction.

##### 9.35.3.4. Column Piers

(1) Piers for the support of carport columns shall extend not less than 150 mm above ground level.

(2) Piers referred to in Sentence (1) shall project not less than 25 mm beyond the base of the column but in no case be less than 190 mm by 190 mm in size.

#### 9.35.4. Walls and Columns

##### 9.35.4.1. Interior Finish

(1) Interior finish need not be applied to garage and carport walls.

##### 9.35.4.2. Columns

(1) Columns for garages and carports shall conform to Section 9.17, except that 89 mm by 89 mm wood columns may be used.

##### 9.35.4.3. Anchorage

(1) Garage or carport walls and columns shall be anchored to the *foundation* to resist wind uplift in conformance with Subsection 9.23.6., except that where a garage is supported on the surface of the ground, ground anchors shall be provided to resist wind uplift.

### Section 9.36. Cottages

#### 9.36.1. Scope

##### 9.36.1.1. Application

(1) This Section applies to *buildings* of *residential occupancy* used or intended to be used as seasonal recreational *buildings*.

(2) The *buildings* described in Sentence (1) shall comply with all the requirements of this Part, except where they are specifically exempted in this Section.

#### 9.36.2. General

##### 9.36.2.1. Exclusions

(1) Except as provided in Articles 9.36.3.1. and 9.36.2.4. and Subsection 9.10.15., *buildings* used or intended to be used as seasonal recreational *buildings* need not comply with Sections 9.5. to 9.7. and 9.9. to 9.11.

(2) Flooring need not comply with Section 9.30., but tight-fitting floors shall be provided to support the *live* and *dead loads*.

(3) Except as provided in Sentences (4) and (5), thermal insulation, vapour barrier, air-barrier construction, interior finishes, plumbing, heating, mechanical ventilation, *air-conditioning* and electrical facilities, need not be provided, but where any of these are provided, they shall comply with the requirements of this Part.

(4) Where heating and *air-conditioning* are provided, Article 9.33.3.1. need not be complied with.

(5) Where thermal insulation is provided, the minimum thermal resistance of insulation in Table 9.25.2.1. need not be provided.

##### 9.36.2.2. Foundations

(1) Continuous perimeter *foundation* walls are not required, but when they are provided, they shall comply with the requirements of this Part.

(2) Where unit masonry columns are used, the height of such columns shall not exceed

- (a) in the case of hollow masonry units, 4 times the least dimension of the units,

- (b) in the case of solid masonry units or hollow units with voids filled with concrete, 10 times the least dimension of the column, or
- (c) where the column is reinforced with at least four 13 mm diameter bars and filled with concrete, 18 times the least dimension of the column.

(3) Columns in excess of the height limitations of Clause (2)(a), (2)(b), or (2)(c) shall be designed in accordance with Part 4.

#### 9.36.2.3. Waterproofing and Dampproofing

(1) Where *foundations* below ground level and concrete floors on *grade* are used, they shall comply with Section 9.13., "Waterproofing and Dampproofing".

#### 9.36.2.4. Smoke Alarms

(1) Every *dwelling unit* within the scope of this Section shall be provided with a smoke alarm in accordance with Subsection 9.10.18.

#### 9.36.3. Tourist Accommodation

##### 9.36.3.1. Buildings for Seasonal Tourist Accommodation or for Rent

(1) Where *buildings* are used or intended to be used for seasonal tourist accommodation or for rent, they shall comply with Sections 9.5. to 9.8. in addition to the requirements of this Section.

### Section 9.37. Log Construction

#### 9.37.1. General

##### 9.37.1.1. Material Requirements

(1) Logs which are sound and free of fractures may be used for *foundations*, beams, posts and similar members providing it can be shown by a structural analysis or tests or previous experience that the strength of the member is adequate for its intended purposes.

##### 9.37.1.2. Requirement for Wood Preservative

(1) The portion of any log coming in contact with masonry or concrete at or below *grade* shall be treated with a wood preservative to prevent decay.

##### 9.37.1.3. Exterior Joints

(1) All exterior joints between logs shall be rendered water-tight by methods such as machined joints, oakum packing, cement parging, chinking, caulking or a combination of these.

#### 9.37.2. Walls

##### 9.37.2.1. Logs

(1) Walls may be built of natural or manufactured logs.

##### 9.37.2.2. Attachment of Logs

(1) Walls made of logs in a horizontal position shall have interlocking intersections which will prevent the collection of water in the joints, or the horizontal logs shall butt to a vertical corner post to which the horizontal logs shall be firmly attached.

#### 9.37.2.3. Joining Logs

(1) Each log in a horizontal position shall be scribed as close as possible to its bearer and fastened to the bearer in at least three places throughout its length, by dowels, continuous machined joints, vertical framing members or interlocking intersections or any combination of these, but in no case shall the distance between fastenings exceed 1 800 mm.

#### 9.37.2.4. Vertical Logs

(1) Each log in a wall built of vertical logs shall be scribed to fit as closely as possible to the adjacent logs.

#### 9.37.2.5. Plates

(1) Logs used in a vertical position shall have a plate at the top and a plate at the bottom, which are at least as wide as the largest end diameter of any of the logs.

#### 9.37.3. Lintels

##### 9.37.3.1. Support Over Openings

(1) Logs placed in vertical position shall be supported over window and door openings by lintels meeting the requirements of Tables A13 to A20.

##### 9.37.3.2. Clearance

(1) At every opening in a wall made of logs in a horizontal position where shrinkage can occur there shall be a clearance between the rough buck header and the lintel log of not less than 13 mm in width for each 300 mm of height to allow for settlement.

### Section 9.38. Thermal Design

#### 9.38.1. Scope

##### 9.38.1.1. Application

(1) This Section applies to the thermal design of a *building of residential occupancy* where such design is an alternative to the thermal insulation requirements of Section 9.25.

#### 9.38.2. General

##### 9.38.2.1. Materials and Installation

(1) The materials for, and the installation of, thermal insulation and vapour barrier protection shall conform to Section 9.25.

##### 9.38.2.2. Protection of Foamed Plastic

(1) Foamed plastic thermal insulation shall be protected as described in Article 9.10.16.10.

##### 9.38.2.3. Crawl Spaces

(1) Crawl spaces shall comply to Section 9.18.

##### 9.38.2.4. Roof Spaces

(1) Roof spaces shall comply to Section 9.19.

##### 9.38.2.5. Ventilation

(1) Ventilation requirements shall comply to Section 9.32 except as provided in Subsection 9.38.7.

**9.38.2.6. Heating and Air-Conditioning**

(1) Heating and *air-conditioning* requirements shall comply to Section 9.33.

**9.38.3. Thermal Resistance of Assemblies****9.38.3.1. Thermal Resistance**

(1) Except as provided in Articles 9.38.3.2. to 9.38.3.6., and except for doors, windows, skylights and other *closures*, the thermal resistance of each *building* assembly through any portion that does not include framing or furring shall conform to Table 9.38.3.1.

**Table 9.38.3.1.****Minimum Thermal Resistance, RSI Value**

Forming Part of Sentence 9.38.3.1.(1)

Building Assembly	Maximum Number of Celsius Degree Days		Electric Space Heating
	Up to 5000	Above 5000	
Ceiling below <i>attic</i> or <i>roof</i> space	5.6	6.9	7.20
Roof assembly without <i>attic</i> or <i>roof</i> space	3.8	3.8	4.15
Wall other than <i>foundation</i> wall	3.7	4.3	5.15
<i>Foundation</i> walls enclosing heated space	2.4	2.4	3.54
Floor, other than slab-on-ground	4.7	4.7	4.7
Slab-on-ground <sup>(1)</sup>			
– containing pipes or heating ducts	2.11	2.11	2.11
– not containing pipes or heating ducts	1.76	1.76	1.76
Column 1	2	3	4

**Note to Table 9.38.3.1.:**

<sup>(1)</sup> “RSI value” shown for slab-on-ground is for rigid insulation.

**9.38.3.2. Metal Framing Elements Acting as Thermal Bridge**

(1) Except as provided in Article 9.38.3.3., the thermal resistance of the insulated portion of a *building* assembly in Sentence 9.38.1.1.(1) that incorporates metal framing elements, such as steel studs and steel joists, that act as thermal bridges to facilitate heat flow through the assembly, shall be 20 per cent greater than the values shown in Table 9.38.3.1., unless it can be shown that the heat flow is not greater than the heat flow through a wood frame assembly of the same thickness.

**9.38.3.3. Insulated Thermal Bridges**

(1) Article 9.38.3.2. does not apply for *building* assemblies incorporating thermal bridges where the thermal bridges are insulated to restrict heat flow through the thermal bridges by a material providing a thermal resistance at least equal to 25 per cent of the thermal resistance required for the insulated portion of the assembly in Article 9.38.3.1.

**9.38.3.4. Reduction of Thermal Resistance**

(1) The thermal resistance of a *building* assembly may be reduced by not more than 20 per cent from that required in Articles 9.38.3.1. and 9.38.3.2., and the amount of glazing may be increased to more than permitted in Article 9.38.4.3., where it can be shown that the total calculated heat loss from the *building* enclosure does not exceed the heat loss that would result if the enclosure were constructed in conformance with the minimum thermal resistance requirements in Articles 9.38.3.1. and 9.38.3.2. and with the maximum amount of glazing permitted in Article 9.38.4.3., provided no allowance is made for solar heat gains or for the orientation of the glazing as described in Article 9.38.4.5.

**9.38.3.5. Thermal Resistance Values for Roof and Ceiling Assemblies**

(1) The thermal resistance values in Article 9.38.3.1. and 9.38.3.2. for roof or ceiling assemblies separating heated space from unheated space or the exterior may be reduced near the eaves to the extent made necessary by the roof slope and required ventilation clearances, except that the thermal resistance at the location directly above the inner surface of the exterior wall shall be at least 2.1 m<sup>2</sup>°C/W.

**9.38.3.6. Reduction in Thermal Resistance Values due to Thermal Inertia**

(1) The thermal resistance values required in Article 9.38.3.1. may be reduced to take into account the effect of thermal inertia resulting from the mass of the *building* in conformance with Building Research Note No. 126, published by the Division of Building Research, National Research Council of Canada, January 1978.

**9.38.3.7. Insulation on Exterior of Foundation Wall**

(1) Insulation applied to the exterior of a *foundation* wall or slab-on-ground floor shall extend down at least 600 mm below the adjacent exterior ground level or shall extend down and outward from the floor or wall for a total distance of at least 600 mm measured from the adjacent finished ground level.

**9.38.3.8. Insulation on Interior of Foundation Wall**

(1) Insulation applied to the interior of a *foundation* walls enclosing heated space shall extend from the underside of the subfloor to not less than 600 mm below the adjacent exterior ground level.

**9.38.4. Glazing****9.38.4.1. Thermal Resistance of Glazing**

(1) Except as provided in Articles 9.38.4.2. and 9.38.4.4., all glazing that separates heated space from unheated space or the exterior shall have a thermal resistance of at least 0.30 m<sup>2</sup>°C/W.

**9.38.4.2. Enclosed Unheated Space**

(1) Where an enclosed unheated space, such as a sun porch, enclosed verandah or vestibule, is separated from a heated space by glazing, the unheated enclosure may be considered to provide thermal resistance of 0.16 m<sup>2</sup>°C/W, or the equivalent of one layer of glazing.

**9.38.4.3. Maximum Area of Glazing**

(1) Except as provided in Articles 9.38.4.4. and 9.38.4.5., the total area of glazing, including glazing for doors and skylights, that separates heated space from unheated space or the exterior shall not exceed 20 per cent of the *floor area* of the *storey* served by the glazed areas and shall not exceed 40 per cent of the total area of the walls of that *storey* separating heated space from unheated space or the exterior. (In the



case of a sloping wall, the area of the opaque portion of the wall is calculated as its projected area on a vertical plane.)

#### 9.38.4.4. Different Thermal Resistance of Glazing

(1) Where the thermal resistance of glazing is different from that required in Articles 9.38.4.1. and 9.38.4.2., the area of such glazing for the purpose of applying Article 9.38.4.3. may be assumed as being equal to the actual area multiplied by the ratio of the required thermal resistance divided by the actual thermal resistance of the glazing.

#### 9.38.4.5. Clear Glass or Shading Coefficient

(1) Except as provided in Article 9.38.4.6., the area of glazing that contains clear glass or that has a shading coefficient of more than 0.70 that is unshaded in the winter and faces a direction within 45° of due South may be assumed to be 50 per cent of its unshaded area in calculating the maximum area of glazing in Articles 9.38.4.3. and 9.38.4.4. provided the *building* is designed with a system that is capable of distributing the solar heat gain from such glazed areas throughout the *building*. For the purpose of determining whether or not the glazing is shaded in the winter, the shading shall be calculated using the noon sun angles of December 21.

#### 9.38.4.6. Building Designed to be Cooled

(1) Article 9.38.4.5. shall not apply where the *building* is designed to be cooled unless the glazing described in 9.38.4.5. is shaded in the summer with exterior devices. For the purpose of determining whether or not the glazing is shaded in the summer, the shading shall be calculated using the noon sun angles of June 21.

### 9.38.5. Doors and Windows

#### 9.38.5.1. Air Curtains

(1) Air curtains shall not be used in place of exterior doors.

#### 9.38.5.2. Infiltration around Doors

(1) Except for doors used primarily to facilitate the movement of vehicles or handling of material, infiltration around doors shall conform to the appropriate requirements in Subsection 9.38.6.

#### 9.38.5.3. Minimum Thermal Resistance of Doors

(1) Except for doors on enclosed unheated vestibules, all doors separating heated space from the outside shall conform to the appropriate requirements of Article 9.25.2.1.

#### 9.38.5.4. Minimum Thermal Resistance of Windows

(1) Windows shall conform to the appropriate requirements of Article 9.25.2.1.

(2) When *electric space heating* is used, all sliding glass doors separating heated space from unheated space or the outdoors shall have an energy rating of not less than -13 ER.

(3) When *electric space heating* is used, all glazing that separates heated space from unheated space or the outdoors shall have an energy rating of not less than -13 ER for openable windows and 0 ER for fixed glazing.

(4) The energy rating required in Sentences (2) and (3) shall be determined in conformance with CAN/CSA-A440.2-M, "Energy Performance Evaluation of Windows and Sliding Glass Doors".

### 9.38.6. Infiltration

#### 9.38.6.1. Air Infiltration of Exterior Windows

(1) Windows separating heated space from unheated space or the exterior shall be designed to limit the rate of air infiltration to not more than 0.775 dm<sup>3</sup>/s for each metre of sash crack when tested at pressure differential of 75 Pa in conformance with ASTM E283, "Standard Method of Test for Rate of Air Leakage through Exterior Windows, Curtain Walls and Doors".

#### 9.38.6.2. Air Infiltration of Exterior Sliding Glass Doors

(1) Manually operated exterior sliding glass door assemblies that separate heated space from unheated space or the exterior shall be designed to limit air infiltration to not more than 2.5 dm<sup>3</sup>/s for each square metre of door area when tested in conformance with Article 9.38.6.1.

#### 9.38.6.3. Air Infiltration of Exterior Swing Type Doors

(1) Except where the door is weather-stripped on all edges and protected with a storm door or by an enclosed unheated space, exterior swing type door assemblies for *dwelling units*, individually rented hotel and motel rooms and *suites* shall be designed to limit the rate of air infiltration to not more than 6.35 dm<sup>3</sup>/s for each square metre of door area when tested in conformance with Article 9.38.6.1.

#### 9.38.6.4. Air Infiltration of Other Doors

(1) Door assemblies other than those described in Articles 9.38.6.2. and 9.38.6.3. that separate heated space from unheated space or the exterior shall be designed to limit the rate of air infiltration to not more than 17.0 dm<sup>3</sup>/s for each metre of door crack when tested in conformance with Article 9.38.6.1.

#### 9.38.6.5. Caulking Materials

(1) Caulking material to reduce air infiltration shall conform to the requirements in Subsection 9.27.4.

#### 9.38.6.6. Sealing of Joints to Prevent Air Leakage

(1) The junction between the sill plate and the *foundation*, joints between exterior wall panels and any other location where there is a possibility of air leakage into heated spaces in a *building* through the exterior walls, such as at utility service entrances, shall be caulked, gasketed or sealed to restrict such air leakage.

#### 9.38.6.7. Air Leakage

(1) Air leakage between heated space and adjacent roof or attic space caused by the penetration of services shall be restricted in conformance with the requirements of Subsection 9.25.3.

### 9.38.7. Ventilation

#### 9.38.7.1. Minimum Ventilation Rate

(1) Fresh air for the ventilation of rooms and spaces in *buildings of residential occupancy* shall be provided at a rate of at least 0.3 air change per hour by a combination of natural and mechanical ventilation.

**Section 9.39. Park Model Trailers****9.39.1. Scope****9.39.1.1. Application**

(1) This Section applies to manufactured *buildings* designed and constructed in conformance with CAN/CSA-Z241 Series-M, "Park Model Trailers" and used or intended to be used as a seasonal recreational *building* of *residential occupancy*.

**9.39.2. General****9.39.2.1. General**

(1) Except as provided in Subsection 9.39.3., a manufactured *building* used or intended to be used as a seasonal recreational *building* of *residential occupancy* is deemed to comply with this Code if it is designed and constructed in conformance with CAN/CSA-Z241 Series-M, "Park Model Trailers".

**9.39.3. Requirements****9.39.3.1. Other Building Components**

(1) The requirements of this Code shall apply to *building* components designed and *constructed* outside the place of manufacture of a *building* described in Article 9.39.1.1.

**9.39.3.2. Spatial Separation**

(1) *Buildings* described in Article 9.39.1.1. shall comply with Section 9.10 where the *building* is

- (a) used or intended to be used for seasonal tourist accommodation, or
- (b) leased or intended to be leased.

**9.39.3.3. Foundations and Anchorage**

(1) *Buildings* described in Article 9.39.1.1. shall be supported and anchored in conformance with the manufacturer's installation instructions.

**9.39.3.4. Proximity to Above Ground Electrical Conductors**

(1) *Buildings* described in Article 9.39.1.1. shall comply with Article 9.1.1.5.

**Section 9.40. Construction of Farm Buildings****9.40.1. Scope****9.40.1.1. Application**

(1) This Section applies to *farm buildings* of *low human occupancy*.

**9.40.1.2. Construction Requirements**

(1) The construction of *farm buildings* of *low human occupancy* shall, subject to Article 2.1.1.5., conform to the requirements of this Part except as provided in this Section.

**9.40.2. Lumber****9.40.2.1. Lumber Requirements**

(1) Except as permitted by Article 9.40.2.2., lumber shall conform to appropriate requirements in Subsection 9.3.2.

**9.40.2.2. Ungraded Lumber**

(1) *Ungraded lumber* may be used for wood posts, joists, rafters, lintels, beams and wall studs in a *farm building* of *low human occupancy* of not more than one *storey* in *building height*.

**9.40.3. Structural Requirements****9.40.3.1. Structural Design**

(1) Except as provided in Articles 9.40.3.2. to 9.40.3.4., wood posts, joists, rafters, lintels, beams and wall studs shall be designed in conformance with Section 9.4.

**9.40.3.2. Posts**

(1) In a *farm building* of *low human occupancy*, the size of wood posts shall conform to Tables 9.40.3.2.A. to 9.40.3.2.J. for the loads shown in the Tables.

**9.40.3.3. Spans**

(1) In a *farm building* of *low human occupancy*, the spans of wood joists, rafters, lintels and beams shall conform to the spans shown in Tables 9.40.3.3.K. to 9.40.3.3.T. for the loads shown in the Tables.

**9.40.3.4. Stud Size and Spacing**

(1) In a *farm building* of *low human occupancy*, the size and spacing of wood studs shall conform to Tables 9.40.3.4.U. to 9.40.3.4.W. for the loads shown in the Tables.

Table 9.40.3.2.A.

## Post Sizes for Diaphragm-Braced Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.2.

Building Width, m	Wall Height, m	Spruce-Pine-Fir, No. 1, Dressed (Post and Timber Grades)														
		For Wind Loading $q_{10} \leq 0.30$ kPa														
		Post Spacing, 2.4 m					Post Spacing, 3.6 m					Post Spacing, 4.8 m				
		Roof Load, kPa					Roof Load, kPa					Roof Load, kPa				
		1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3
9.14	$\leq 3.0$	A	A	A	A	A	A	A	A	A	A	A	A	B	B	B
	3.6	A	A	A	A	A	A	A	B	B	B	B	B	B	C	C
	4.2	B	B	B	B	B	B	B	B	C	C	B	C	C	C	C
	4.8	B	B	B	B	B	B	C	C	C	C	C	C	C	C	C
	6.0	C	C	C	C	C	C	C	C	D	D	C	D	D	—	—
12.1	$\leq 3.0$	A	A	A	A	A	A	A	A	B	B	A	B	B	B	C
	3.6	A	A	A	A	B	A	B	B	B	C	B	B	C	C	C
	4.2	B	B	B	B	B	B	B	C	C	C	C	C	C	C	C
	4.8	B	B	B	C	C	C	C	C	C	C	C	C	D	D	D
	6.0	C	C	C	C	C	C	C	D	D	—	D	D	—	—	—
15.2	$\leq 3.0$	A	A	A	A	A	A	A	B	B	B	B	B	B	C	C
	3.6	A	A	A	B	B	B	B	B	C	C	B	C	C	C	C
	4.2	B	B	B	B	C	B	C	C	C	C	C	C	C	D	D
	4.8	B	B	C	C	C	C	C	C	C	D	C	C	D	D	—
	6.0	C	C	C	C	D	C	D	D	—	—	D	—	—	—	—
18.2	$\leq 3.0$	A	A	A	B	B	A	B	B	B	C	B	B	C	C	C
	3.6	A	A	B	B	B	B	B	C	C	C	C	C	C	C	D
	4.2	B	B	B	C	C	C	C	C	C	C	C	C	D	D	D
	4.8	B	C	C	C	C	C	C	C	D	D	C	D	D	—	—
	6.0	C	C	C	D	D	D	D	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

## Legend - Post Sizes

A = 89 mm x 140 mm  
 B = 140 mm x 140 mm  
 C = 140 mm x 184 mm  
 D = 184 mm x 184 mm

## Notes to Table 9.40.3.2.A.:

- (1) Designs are based on load combinations of total roof load and wind load acting at the same time on a closed building.
- (2) Posts shall be oriented with the long dimension parallel to the building width.
- (3) Bracing systems shall be specified by a competent designer.
- (4) Posts shall be situated on footings and shall be anchored to prevent wind uplift.
- (5) Posts shall be constrained against lateral movement at ground level and at the footing. Concrete floor, splash-rail and uplift anchor help to meet this condition.
- (6) Post designs are based on partial fixity condition due to embedment in soil.
- (7) Footing excavations should be backfilled with parent material unless otherwise specified by a competent designer.



Table 9.40.3.2.B.

## Post Sizes for Diaphragm-Braced Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.2.

Building Width, m	Wall Height, m	Spruce-Pine-Fir, No. 1, Dressed (Post and Timber Grades)														
		For Wind Loading $q_{10} \leq 0.45$ kPa														
		Post Spacing, 2.4 m					Post Spacing, 3.6 m					Post Spacing, 4.8 m				
		Roof Load, kPa					Roof Load, kPa					Roof Load, kPa				
		1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3
9.14	$\leq 3.0$	A	A	A	A	A	A	A	A	A	B	A	B	B	B	B
	3.6	A	A	A	A	A	A	B	B	B	B	B	B	C	C	C
	4.2	B	B	B	B	B	B	B	C	C	C	C	C	C	C	C
	4.8	B	B	B	C	C	C	C	C	C	C	C	C	C	D	D
	6.0	C	C	C	C	C	C	D	D	D	D	D	—	—	—	—
12.1	$\leq 3.0$	A	A	A	A	A	A	A	B	B	B	B	B	B	C	C
	3.6	A	A	A	B	B	B	B	B	C	C	C	C	C	C	C
	4.2	B	B	B	B	C	C	C	C	C	C	C	C	C	C	D
	4.8	B	C	C	C	C	C	C	C	C	C	C	D	D	D	—
	6.0	C	C	C	C	D	D	D	D	—	—	—	—	—	—	—
15.2	$\leq 3.0$	A	A	A	A	B	A	B	B	B	C	B	B	C	C	C
	3.6	A	A	B	B	B	B	B	C	C	C	C	C	C	C	D
	4.2	B	B	B	C	C	C	C	C	C	C	C	C	D	D	D
	4.8	B	C	C	C	C	C	C	C	D	D	C	D	D	—	—
	6.0	C	C	C	D	D	D	D	—	—	—	—	—	—	—	—
18.2	$\leq 3.0$	A	A	A	B	B	B	B	B	C	C	B	C	C	C	C
	3.6	A	B	B	B	C	B	C	C	C	C	C	C	C	D	D
	4.2	B	B	C	C	C	C	C	C	C	D	C	D	D	D	—
	4.8	C	C	C	C	C	C	C	D	D	—	D	D	—	—	—
	6.0	C	C	D	D	—	D	—	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

## Legend - Post Sizes

A = 89 mm x 140 mm  
 B = 140 mm x 140 mm  
 C = 140 mm x 184 mm  
 D = 184 mm x 184 mm

## Notes to Table 9.40.3.2.B.:

- (1) Designs are based on load combinations of total roof load and wind load acting at the same time on a closed building.
- (2) Posts shall be oriented with the long dimension parallel to the building width.
- (3) Bracing systems shall be specified by a competent designer.
- (4) Posts shall be situated on footings and shall be anchored to prevent wind uplift.
- (5) Posts shall be constrained against lateral movement at ground level and at the footing. Concrete floor, splash-rail and uplift anchor help to meet this condition.
- (6) Post designs are based on partial fixity condition due to embedment in soil.
- (7) Footing excavations should be backfilled with parent material unless otherwise specified by a competent designer.

Table 9.40.3.2.C.

## Post Sizes for Knee-Braced Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.2.

Building Width, m	Wall Height, m	Spruce-Pine-Fir, No. 1, Dressed (Post and Timber Grades)														
		For Wind Loading $q_{10} \leq 0.30$ kPa														
		Post Spacing, 2.4 m					Post Spacing, 3.6 m					Post Spacing, 4.8 m				
		Roof Load, kPa					Roof Load, kPa					Roof Load, kPa				
		1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3
9.14	$\leq 3.0$	A	A	A	A	A	A	A	A	B	B	A	B	B	B	C
	3.6	A	A	A	A	B	A	B	B	B	C	B	C	C	C	C
	4.2	B	B	B	B	B	B	C	C	C	C	C	C	C	C	C
	4.8	C	C	C	C	C	C	C	C	C	C	C	C	C	D	D
	6.0	C	C	C	C	C	C	D	D	D	—	D	—	—	—	—
12.1	$\leq 3.0$	A	A	A	A	A	A	A	B	B	B	B	B	C	C	C
	3.6	A	A	B	B	B	B	B	C	C	C	C	C	C	C	C
	4.2	B	B	B	C	C	C	C	C	C	C	C	C	C	D	D
	4.8	C	C	C	C	C	C	C	C	D	D	C	D	D	—	—
	6.0	C	C	C	D	D	D	D	—	—	—	—	—	—	—	—
15.2	$\leq 3.0$	A	A	A	B	B	A	B	B	C	C	B	C	C	C	C
	3.6	A	B	B	B	C	B	C	C	C	C	C	C	C	C	D
	4.2	B	B	C	C	C	C	C	C	C	D	C	C	D	D	—
	4.8	C	C	C	C	C	C	C	D	D	—	D	D	—	—	—
	6.0	C	C	D	D	—	D	—	—	—	—	—	—	—	—	—
18.2	$\leq 3.0$	A	A	B	B	B	B	B	C	C	C	B	C	C	C	D
	3.6	B	B	B	C	C	C	C	C	C	C	C	C	C	D	D
	4.2	B	C	C	C	C	C	C	C	D	D	C	D	D	—	—
	4.8	C	C	C	C	D	C	D	D	—	—	D	—	—	—	—
	6.0	C	D	D	—	—	—	—	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

## Legend - Post Sizes

A = 89 mm x 140 mm  
 B = 140 mm x 140 mm  
 C = 140 mm x 184 mm  
 D = 184 mm x 184 mm

## Notes to Table 9.40.3.2.C.:

- (1) Designs are based on load combinations of total roof load and wind load acting at the same time on a closed building.
- (2) Posts shall be oriented with the long dimension parallel to the building width.
- (3) Bracing systems shall be specified by a competent designer.
- (4) Posts shall be situated on footings and shall be anchored to prevent wind uplift.
- (5) Posts shall be constrained against lateral movement at ground level and at the footing. Concrete floor, splash-rail and uplift anchor help to meet this condition.
- (6) Post designs are based on partial fixity condition due to embedment in soil.
- (7) Footing excavations should be backfilled with parent material unless otherwise specified by a competent designer.

Table 9.40.3.2.D.

## Post Sizes for Knee-Braced Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.2.

Building Width, m	Wall Height, m	Spruce-Pine-Fir, No. 1, Dressed (Post and Timber Grades)														
		For Wind Loading $q_{10} \leq 0.45$ kPa														
		Post Spacing, 2.4 m					Post Spacing, 3.6 m					Post Spacing, 4.8 m				
		Roof Load, kPa					Roof Load, kPa					Roof Load, kPa				
		1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3
9.14	$\leq 3.0$	A	A	A	A	A	A	A	B	B	B	B	B	B	C	C
	3.6	A	A	A	B	B	B	B	B	C	C	C	C	C	C	C
	4.2	B	B	B	B	C	C	C	C	C	C	C	C	C	C	D
	4.8	C	C	C	C	C	C	C	C	C	D	C	D	D	D	—
	6.0	C	C	C	C	D	D	D	—	—	—	—	—	—	—	—
12.1	$\leq 3.0$	A	A	A	A	B	A	B	B	B	C	B	B	C	C	C
	3.6	B	B	B	B	B	B	C	C	C	C	C	C	C	C	C
	4.2	B	B	C	C	C	C	C	C	C	C	C	C	D	D	D
	4.8	C	C	C	C	C	C	C	D	D	D	D	D	—	—	—
	6.0	C	C	D	D	D	D	—	—	—	—	—	—	—	—	—
15.2	$\leq 3.0$	A	A	B	B	B	B	B	B	C	C	B	C	C	C	C
	3.6	A	B	B	C	C	C	C	C	C	C	C	C	C	D	D
	4.2	B	C	C	C	C	C	C	C	D	D	C	D	D	—	—
	4.8	C	C	C	C	C	C	D	D	D	—	D	—	—	—	—
	6.0	C	D	D	—	—	—	—	—	—	—	—	—	—	—	—
18.2	$\leq 3.0$	A	A	B	B	B	B	B	C	C	C	C	C	C	C	D
	3.6	B	B	C	C	C	C	C	C	C	D	C	C	D	D	—
	4.2	C	C	C	C	C	C	C	D	D	D	D	D	—	—	—
	4.8	C	C	C	D	D	C	D	—	—	—	D	—	—	—	—
	6.0	D	D	—	—	—	—	—	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

## Legend - Post Sizes

A = 89 mm x 140 mm  
 B = 140 mm x 140 mm  
 C = 140 mm x 184 mm  
 D = 184 mm x 184 mm

## Notes to Table 9.40.3.2.D.:

- (1) Designs are based on load combinations of total roof load and wind load acting at the same time on a closed *building*.
- (2) Posts shall be oriented with the long dimension parallel to the *building* width.
- (3) Bracing systems shall be specified by a competent designer.
- (4) Posts shall be situated on footings and shall be anchored to prevent wind uplift.
- (5) Posts shall be constrained against lateral movement at ground level and at the footing. Concrete floor, splash-rail and uplift anchor help to meet this condition.
- (6) Post designs are based on partial fixity condition due to embedment in soil.
- (7) Footing excavations should be backfilled with parent material unless otherwise specified by a competent designer.



Table 9.40.3.2.E.

## Post Sizes for Diaphragm-Braced Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.2.

Building Width, m	Wall Height, m	Ungraded Lumber, Full-Dimensioned														
		For Wind Loading $q_{10} \leq 0.30$ kPa														
		Post Spacing, 2.4 m					Post Spacing, 3.6 m					Post Spacing, 4.8 m				
		Roof Load, kPa					Roof Load, kPa					Roof Load, kPa				
		1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3
9.14	$\leq 3.0$	A	A	A	A	A	A	A	A	B	B	A	B	B	C	C
	3.6	A	A	A	A	B	A	B	B	B	C	B	C	C	C	C
	4.2	B	B	B	B	B	B	B	C	C	C	C	C	C	C	D
	4.8	B	B	B	B	C	C	C	C	C	C	C	C	C	D	D
	6.0	C	C	C	C	C	C	C	D	D	D	D	D	—	—	—
12.1	$\leq 3.0$	A	A	A	A	B	A	B	B	B	C	B	B	C	C	C
	3.6	A	A	B	B	B	B	B	C	C	C	C	C	C	C	D
	4.2	B	B	B	B	C	B	C	C	C	C	C	C	D	D	D
	4.8	B	B	C	C	C	C	C	C	C	D	C	D	D	D	—
	6.0	C	C	C	C	D	C	D	D	—	—	D	—	—	—	—
15.2	$\leq 3.0$	A	A	A	B	B	B	B	C	C	C	B	C	C	D	D
	3.6	A	B	B	B	C	B	C	C	C	C	C	C	D	D	D
	4.2	B	B	C	C	C	C	C	C	D	D	C	D	D	—	—
	4.8	B	C	C	C	C	C	C	D	D	D	D	D	—	—	—
	6.0	C	C	C	D	D	D	D	—	—	—	—	—	—	—	—
18.2	$\leq 3.0$	A	A	B	B	C	B	B	C	C	D	C	C	D	D	—
	3.6	A	B	B	C	C	C	C	C	D	D	C	D	D	—	—
	4.2	B	C	C	C	C	C	C	D	D	D	C	D	—	—	—
	4.8	C	C	C	C	D	C	D	D	—	—	D	—	—	—	—
	6.0	C	C	D	D	—	D	—	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

## Legend - Post Sizes

A = 101.6 mm x 152.4 mm

B = 152.4 mm x 152.4 mm

C = 152.4 mm x 203.2 mm

D = 203.2 mm x 203.2 mm

## Notes to Table 9.40.3.2.E:

- (1) Designs are based on load combinations of total roof load and wind load acting at the same time on a closed *building*.
- (2) Posts shall be oriented with the long dimension parallel to the *building* width.
- (3) Bracing systems shall be specified by a competent designer.
- (4) Posts shall be situated on footings and shall be anchored to prevent wind uplift.
- (5) Posts shall be constrained against lateral movement at ground level and at the footing. Concrete floor, splash-rail and uplift anchor help to meet this condition.
- (6) Post designs are based on partial fixity condition due to embedment in soil.
- (7) Footing excavations should be backfilled with parent material unless otherwise specified by a competent designer.

Table 9.40.3.2.F.

## Post Sizes for Diaphragm-Braced Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.2.

Building Width, m	Wall Height, m	Ungraded Lumber, Full-Dimensioned														
		For Wind Loading $q_{10} \leq 0.45$ kPa														
		Post Spacing, 2.4 m					Post Spacing, 3.6 m					Post Spacing, 4.8 m				
		Roof Load, kPa					Roof Load, kPa					Roof Load, kPa				
		1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3
9.14	$\leq 3.0$	A	A	A	A	A	A	A	B	B	B	B	B	C	C	C
	3.6	A	A	A	B	B	B	B	B	C	C	C	C	C	C	C
	4.2	B	B	B	B	C	C	C	C	C	C	C	C	C	D	D
	4.8	B	B	C	C	C	C	C	C	C	D	C	D	D	D	—
	6.0	C	C	C	C	C	D	D	D	—	—	—	—	—	—	—
12.1	$\leq 3.0$	A	A	A	B	B	B	B	B	C	C	B	C	C	C	C
	3.6	A	A	B	B	B	B	C	C	C	C	C	C	C	D	D
	4.2	B	B	B	C	C	C	C	C	C	D	C	D	D	D	—
	4.8	B	C	C	C	C	C	C	D	D	D	D	D	—	—	—
	6.0	C	C	C	D	D	D	D	—	—	—	—	—	—	—	—
15.2	$\leq 3.0$	A	A	B	B	B	B	B	C	C	C	C	C	C	D	D
	3.6	A	B	B	C	C	C	C	C	C	D	C	C	D	D	—
	4.2	B	C	C	C	C	C	C	C	D	D	D	D	D	—	—
	4.8	C	C	C	C	C	C	D	D	D	—	D	—	—	—	—
	6.0	C	C	D	D	—	D	—	—	—	—	—	—	—	—	—
18.2	$\leq 3.0$	A	B	B	B	C	B	C	C	C	D	C	C	D	D	—
	3.6	B	B	C	C	C	C	C	C	D	D	C	D	D	—	—
	4.2	B	C	C	C	C	C	C	D	D	—	D	D	—	—	—
	4.8	C	C	C	C	D	D	D	D	—	—	—	—	—	—	—
	6.0	C	D	D	—	—	—	—	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

## Legend - Post Sizes

A = 101.6 mm x 152.4 mm

B = 152.4 mm x 152.4 mm

C = 152.4 mm x 203.2 mm

D = 203.2 mm x 203.2 mm

## Notes to Table 9.40.3.2.F:

- (1) Designs are based on load combinations of total roof load and wind load acting at the same time on a closed *building*.
- (2) Posts shall be oriented with the long dimension parallel to the *building* width.
- (3) Bracing systems shall be specified by a competent designer.
- (4) Posts shall be situated on footings and shall be anchored to prevent wind uplift.
- (5) Posts shall be constrained against lateral movement at ground level and at the footing. Concrete floor, splash-rail and uplift anchor help to meet this condition.
- (6) Post designs are based on partial fixity condition due to embedment in soil.
- (7) Footing excavations should be backfilled with parent material unless otherwise specified by a competent designer.

Table 9.40.3.2.G.

## Post Sizes for Knee-Braced Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.2.

Building Width, m	Wall Height, m	Ungraded Lumber, Full-Dimensioned														
		For Wind Loading $q_{10} \leq 0.30$ kPa														
		Post Spacing, 2.4 m					Post Spacing, 3.6 m					Post Spacing, 4.8 m				
		Roof Load, kPa					Roof Load, kPa					Roof Load, kPa				
		1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3
9.14	$\leq 3.0$	A	A	A	A	A	A	A	B	B	B	B	B	C	C	C
	3.6	A	A	A	B	B	B	B	B	C	C	B	C	C	C	C
	4.2	B	B	B	B	C	B	C	C	C	C	C	C	C	D	D
	4.8	C	C	C	C	C	C	C	C	C	D	C	C	D	D	—
	6.0	C	C	C	C	D	C	D	D	—	—	D	—	—	—	—
12.1	$\leq 3.0$	A	A	A	B	B	A	B	B	C	C	B	C	C	C	D
	3.6	A	B	B	B	C	B	C	C	C	C	C	C	C	D	D
	4.2	B	B	C	C	C	C	C	C	C	D	C	C	D	D	—
	4.8	C	C	C	C	C	C	C	D	D	D	D	D	—	—	—
	6.0	C	C	C	D	D	D	D	—	—	—	—	—	—	—	—
15.2	$\leq 3.0$	A	A	B	B	B	B	B	C	C	C	C	C	C	D	D
	3.6	A	B	B	C	C	C	C	C	C	D	C	C	D	D	—
	4.2	B	C	C	C	C	C	C	D	D	D	C	D	—	—	—
	4.8	C	C	C	C	D	C	D	D	—	—	D	—	—	—	—
	6.0	C	D	D	D	—	D	—	—	—	—	—	—	—	—	—
18.2	$\leq 3.0$	A	B	B	C	C	B	C	C	C	D	C	C	D	D	—
	3.6	B	B	C	C	C	C	C	C	D	D	C	D	D	—	—
	4.2	C	C	C	C	D	C	C	D	—	—	D	D	—	—	—
	4.8	C	C	C	D	D	C	D	—	—	—	D	—	—	—	—
	6.0	C	D	—	—	—	—	—	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

## Legend - Post Sizes

A = 101.6 mm x 152.4 mm

B = 152.4 mm x 152.4 mm

C = 152.4 mm x 203.2 mm

D = 203.2 mm x 203.2 mm

## Notes to Table 9.40.3.2.G

- (1) Designs are based on load combinations of total roof load and wind load acting at the same time on a closed building.
- (2) Posts shall be oriented with the long dimension parallel to the building width.
- (3) Bracing systems shall be specified by a competent designer.
- (4) Posts shall be situated on footings and shall be anchored to prevent wind uplift.
- (5) Posts shall be constrained against lateral movement at ground level and at the footing. Concrete floor, splash-rail and uplift anchor help to meet this condition.
- (6) Post designs are based on partial fixity condition due to embedment in soil.
- (7) Footing excavations should be backfilled with parent material unless otherwise specified by a competent designer.



Table 9.40.3.2.H.

## Post Sizes for Knee-Braced Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.2.

Building Width, m	Wall Height, m	Ungraded Lumber, Full-Dimensioned														
		For Wind Loading $q_{10} \leq 0.45$ kPa														
		Post Spacing, 2.4 m					Post Spacing, 3.6 m					Post Spacing, 4.8 m				
		Roof Load, kPa					Roof Load, kPa					Roof Load, kPa				
		1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3
9.14	$\leq 3.0$	A	A	A	A	B	A	B	B	B	C	B	C	C	C	C
	3.6	A	A	B	B	B	B	C	C	C	C	C	C	C	C	D
	4.2	B	B	B	C	C	C	C	C	C	C	C	C	D	D	D
	4.8	C	C	C	C	C	C	C	C	D	D	D	D	D	—	—
	6.0	C	C	C	D	D	D	D	—	—	—	—	—	—	—	—
12.1	$\leq 3.0$	A	A	B	B	B	B	B	C	C	C	C	C	C	C	D
	3.6	A	B	B	C	C	C	C	C	C	C	C	C	D	D	D
	4.2	B	C	C	C	C	C	C	C	D	D	C	D	D	—	—
	4.8	C	C	C	C	C	C	D	D	D	—	D	—	—	—	—
	6.0	C	D	D	D	—	—	—	—	—	—	—	—	—	—	—
15.2	$\leq 3.0$	A	B	B	B	C	B	C	C	C	C	C	C	D	D	D
	3.6	B	B	C	C	C	C	C	C	D	D	C	D	D	—	—
	4.2	C	C	C	C	C	C	C	D	D	—	D	D	—	—	—
	4.8	C	C	C	D	D	D	D	—	—	—	—	—	—	—	—
	6.0	D	D	D	—	—	—	—	—	—	—	—	—	—	—	—
18.2	$\leq 3.0$	A	B	B	C	C	C	C	C	D	D	C	D	D	—	—
	3.6	B	C	C	C	C	C	C	D	D	—	D	D	—	—	—
	4.2	C	C	C	C	C	C	C	D	D	—	D	D	—	—	—
	4.8	C	C	C	C	D	C	D	D	—	—	D	—	—	—	—
	6.0	C	C	D	D	D	D	—	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

## Legend - Post Sizes

A = 101.6 mm x 152.4 mm

B = 152.4 mm x 152.4 mm

C = 152.4 mm x 203.2 mm

D = 203.2 mm x 203.2 mm

## Notes to Table 9.40.3.2.H.:

- (1) Designs are based on load combinations of total roof load and wind load acting at the same time on a closed *building*.
- (2) Posts shall be oriented with the long dimension parallel to the *building* width.
- (3) Bracing systems shall be specified by a competent designer.
- (4) Posts shall be situated on footings and shall be anchored to prevent wind uplift.
- (5) Posts shall be constrained against lateral movement at ground level and at the footing. Concrete floor, splash-rail and uplift anchor help to meet this condition.
- (6) Post designs are based on partial fixity condition due to embedment in soil.
- (7) Footing excavations should be backfilled with parent material unless otherwise specified by a competent designer.

Table 9.40.3.2.I.

## Post Sizes for Farm Buildings of Low Human Occupancy (With Second Storey Loading)

Forming Part of Article 9.40.3.2.

Side wall Height, m	Total Roof Load, kPa	Spruce-Pine-Fir, No. 1, Dressed (Post and Timber Grades)																Second Storey Plate, kN/m
		Wind load: q10 ≤ 0.30 kPa								Wind load: q10 ≤ 0.45 kPa								
		2.4 m o.c.				3.600 m o.c.				2.400 m o.c.				3.600 m o.c.				
		Building Width, m				Building Width, m				Building Width, m				Building Width, m				
		9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3	
3.0	1.9	A	A	A	A	A	A	B	B	A	A	A	A	A	B	B	B	14.6
	2.4	A	A	A	A	A	B	B	B	A	A	A	B	A	B	B	B	
	2.8	A	A	A	B	A	B	B	C	A	A	B	B	B	B	B	C	
	3.3	A	A	B	B	B	B	B	C	A	A	B	B	B	B	C	C	
3.6	1.9	A	A	A	B	A	B	B	C	A	A	B	B	B	B	C	C	14.6
	2.4	A	A	B	B	B	B	C	C	A	B	B	B	B	C	C	C	
	2.8	A	B	B	B	B	B	C	C	A	B	B	B	B	C	C	C	
	3.3	A	B	B	C	B	C	C	C	B	B	B	C	C	C	C	C	
3.0	1.9	A	A	A	A	A	A	B	B	A	A	A	A	A	A	B	B	7.3
	2.4	A	A	A	A	A	A	B	B	A	A	A	A	A	B	B	B	
	2.8	A	A	A	B	A	B	B	B	A	A	A	B	B	B	B	C	
	3.3	A	A	B	B	B	B	B	C	A	A	B	B	B	B	C	C	
3.6	1.9	A	A	A	B	A	B	B	B	A	A	B	B	B	B	C	C	7.3
	2.4	A	A	B	B	B	B	C	C	A	B	B	B	B	B	C	C	
	2.8	A	A	B	B	B	B	C	C	A	B	B	B	B	C	C	C	
	3.3	A	B	B	B	B	C	C	C	B	B	B	C	C	C	C	C	
3.0	1.9	A	A	A	A	A	A	A	B	A	A	A	A	A	A	B	B	3.6
	2.4	A	A	A	A	A	A	B	B	A	A	A	A	A	B	B	B	
	2.8	A	A	A	B	A	B	B	B	A	A	A	B	B	B	B	C	
	3.3	A	A	A	B	A	B	B	C	A	A	B	B	B	B	C	C	
3.6	1.9	A	A	A	B	A	B	B	B	A	A	A	B	B	B	B	C	3.6
	2.4	A	A	B	B	B	B	B	C	A	A	B	B	B	B	C	C	
	2.8	A	A	B	B	B	B	C	C	A	B	B	B	B	C	C	C	
	3.3	A	B	B	B	B	C	C	C	A	B	B	C	B	C	C	C	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

## Legend - Post Sizes

A = 89 mm x 140 mm

B = 140 mm x 140 mm

C = 140 mm x 184 mm

## Notes to Table 9.40.3.2.I.:

- (1) Designs are based on load combinations of total roof load, wind load and stored product acting at the same time on a closed building.
- (2) All notes following Table 9.40.3.2.A. apply, with the following conditions/exceptions:
  - 14.6 kN/m loading: Full 4.8 m sidewall hay/straw storage space above. It is supported by beams spaced at 3.6 m o.c. The outside plate carries a 1.8 m floor width. If the loading is greater, refer to a qualified person for design.
  - 7.3 kN/m loading: Full 2.4 m sidewall hay/straw storage space above or a gambrel roof structure > 9.14 m in total width. Floor support beams as above.
  - 3.6 kN/m loading: Small gambrel roof structure or storage space for light storage. Floor support beams as above.

Table 9.40.3 2.J.

## Round Posts

Forming Part of Article 9.40.3.2.

<i>Ungraded Lumber</i> Full-dimension Size, mm	Equivalent Diameter Full Size, mm
50.8 x 101.6	101.6
50.8 x 152.4	127.0
50.8 x 203.2	152.4
50.8 x 254.0	177.8
50.8 x 304.8	203.2
76.2 x 304.8	228.6
76.2 x 355.6	254.0
101.6 x 152.4	158.8
101.6 x 304.8	203.2
101.6 x 355.6	279.4
127.0 x 203.2	209.6
127.0 x 254.0	241.3
152.4 x 152.4	190.5
152.4 x 203.2	222.3
152.4 x 254.0	260.4
203.2 x 203.2	247.7
203.2 x 254.0	285.8
203.2 x 304.8	317.5
254.0 x 304.8	342.9
254.0 x 355.6	381.0
Column 1	2

**Notes to Table 9.40.3.2.J.:**

- (1) When selecting round, *ungraded lumber*, ensure that the material is of good quality.
- (2) Any timber that is in contact with ground shall be chemically treated to resist growth of fungus and decay.
- (3) Equivalent diameter indicated in this Table refers to the smallest diameter of a tapering pole.
- (4) Used hydro or telephone poles may be used if they are of good quality and are chemically treated to prevent decay.
- (5) Indicated equivalent diameter will provide bending, shear and deflection resisting capabilities equal to or better than the rectangular section that it replaces.



Table 9.40.3.3.K.

## Common Rafter Sizes for Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.3.

Rafter Span, m	Spruce-Pine-Fir, No. 1 and No. 2 (Dressed Lumber)														
	Rafter Spacing														
	300 mm					400 mm					600 mm				
	Live Load, kPa					Live Load, kPa					Live Load, kPa				
	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3
2.4	A	A	B	B	B	A	B	B	B	B	B	B	B	B	B
3.0	B	B	B	B	B	B	B	B	B	C	B	B	C	C	D
3.6	B	B	C	C	C	B	C	C	C	C	C	C	D	D	D
4.2	B	C	C	C	C	C	C	C	D	D	C	D	D	E	E
4.8	C	C	D	D	D	C	D	D	E	E	D	E	E	—	—
5.4	C	D	D	D	E	D	D	E	E	—	E	E	—	—	—
6.0	D	D	D	E	—	D	E	E	—	—	E	—	—	—	—
Column I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## Legend - Rafter Sizes

A = 38 mm x 89 mm

B = 38 mm x 140 mm

C = 38 mm x 184 mm

D = 38 mm x 235 mm

E = 38 mm x 286 mm

## Note to Table 9.40.3.3.K.:

(1) The rafter span is the unsupported length of the rafter from plate to plate or from plate to ridge. A dead load of 0.24 kPa is incorporated to allow for weight of the roof sheathing and rafter.

Table 9.40.3.3.L.

## Common Rafter Sizes for Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.3.

Rafter Span, m	Ungraded Lumber, Full-Dimension														
	Rafter Spacing														
	300 mm					400 mm					600 mm				
	Live Load, kPa					Live Load, kPa					Live Load, kPa				
	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3	1.4	1.9	2.4	2.8	3.3
2.4	A	A	B	B	B	B	B	B	B	C	B	B	C	C	D
3.0	B	B	B	C	C	B	C	C	C	D	C	C	D	D	E
3.6	B	C	C	D	D	C	C	D	D	E	D	D	E	F	F
4.2	C	C	D	D	E	D	D	E	E	F	E	F	F	F	G
4.8	C	D	E	E	F	D	E	F	F	F	F	F	F	G	I
5.4	D	E	F	F	F	E	F	F	F	G	F	G	H	I	—
6.0	E	F	F	F	G	F	F	G	G	I	F	H	I	—	—
Column I	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

## Legend - Rafter Sizes

A = 50.8 mm x 101.6 mm

B = 50.8 mm x 152.4 mm

C = 50.8 mm x 203.2 mm

D = 50.8 mm x 254.0 mm

E = 50.8 mm x 304.8 mm

F = 76.2 mm x 304.8 mm

G = 76.2 mm x 355.6 mm

H = 101.6 mm x 304.8 mm

I = 101.6 mm x 355.6 mm

## Note to Table 9.40.3.3.L.:

(1) The rafter span is the unsupported length of the rafter from plate to plate or from plate to ridge. A dead load of 0.24 kPa is incorporated to allow for weight of the roof sheathing and rafter.

Table 9.40.3.3.M.

Floor Joists for Farm Buildings of Low Human Occupancy -Intermittent Loads<sup>(1)</sup>

Forming Part of Article 9.40.3.3.

Joist Span, m	Spruce-Pine-Fir, No. 1 and No. 2 (Dressed Lumber)																	
	Joist Spacing																	
	300 mm						400 mm						600 mm					
	Live Load, kPa						Live Load, kPa						Live Load, kPa					
	1.9	2.8	3.8	4.8	6.7	8.6	1.9	2.8	3.8	4.8	6.7	8.6	1.9	2.8	3.8	4.8	6.7	8.6
2.4	A	B	B	B	B	C	B	B	B	B	C	C	B	B	B	C	D	D
3.0	B	B	B	C	C	D	B	B	C	C	D	D	B	C	C	D	E	—
3.6	B	C	C	C	D	D	C	C	C	D	E	E	C	D	D	E	—	—
4.2	C	C	D	D	E	E	C	D	D	E	—	—	D	D	E	—	—	—
4.8	C	D	D	E	—	—	D	D	E	E	—	—	D	E	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

## Legend - Joist Sizes

A = 38 mm x 89 mm  
 B = 38 mm x 140 mm  
 C = 38 mm x 184 mm  
 D = 38 mm x 235 mm  
 E = 38 mm x 286 mm

## Notes to Table 9.40.3.3.M.:

- (1) Loads are applied to the floor intermittently. (When loads are applied for extended periods of time, use Table 9.40.3.3.N.).  
 (2) A dead load of 0.48 kPa is incorporated to allow for the dead weight of the floor system.

Table 9.40.3.3.N.

Floor Joists for Farm Buildings of Low Human Occupancy-Continuous Loads<sup>(1)</sup>

Forming Part of Article 9.40.3.3.

Joist Span, m	Spruce-Pine-Fir, No. 1 and No. 2 (Dressed Lumber)																	
	Joist Spacing																	
	300 mm						400 mm						600 mm					
	Live Load, kPa						Live Load, kPa						Live Load, kPa					
	1.9	2.8	3.8	4.8	6.7	8.6	1.9	2.8	3.8	4.8	6.7	8.6	1.9	2.8	3.8	4.8	6.7	8.6
2.4	A	B	B	B	C	C	B	B	B	C	D	E	B	C	C	D	—	—
3.0	B	B	C	C	D	E	B	C	C	D	E	—	C	D	D	E	—	—
3.6	B	C	D	D	E	—	C	D	D	E	—	—	D	E	—	—	—	—
4.2	C	D	D	E	—	—	D	E	E	—	—	—	E	—	—	—	—	—
4.8	D	D	E	—	—	—	D	E	—	—	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

## Legend - Joist Sizes

A = 38 mm x 89 mm  
 B = 38 mm x 140 mm  
 C = 38 mm x 184 mm  
 D = 38 mm x 235 mm  
 E = 38 mm x 286 mm

## Notes to Table 9.40.3.3.N.:

- (1) For use of floors that support hay, straw, grain or other continuous loads.  
 (2) A dead load of 0.48 kPa is incorporated to allow for the dead weight of the floor system.

Table 9.40.3.3.O.

Built-up Wood Beam Sizes for Farm Buildings of Low Human Occupancy—Intermittent Loads<sup>(1)</sup>

Forming Part of Article 9.40.3.3.

Beam Span, m	Spruce-Pine-Fir, No. 1 and No. 2 (Dressed Lumber)										
	Total Load on Beam, kN/m										
	5.84	8.76	11.67	14.59	17.51	20.43	23.35	26.27	29.19	32.11	35.03
1.8	A	A	A	B	B	D	D	G	G	J	L
2.4	A	A	B	D	E	H	J	L	—	—	—
3.0	A	C	E	H	J	K	—	—	—	—	—
3.6	C	H	J	L	—	—	—	—	—	—	—
4.2	E	J	L	—	—	—	—	—	—	—	—
4.8	I	L	—	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10	11	12

## Legend - Beam Sizes

A = 3 – 38 mm x 184 mm  
 B = 4 – 38 mm x 184 mm  
 C = 3 – 38 mm x 235 mm  
 D = 5 – 38 mm x 184 mm  
 E = 3 – 38 mm x 286 mm  
 F = 4 – 38 mm x 235 mm  
 G = 6 – 38 mm x 184 mm  
 H = 5 – 38 mm x 235 mm  
 I = 4 – 38 mm x 286 mm  
 J = 6 – 38 mm x 235 mm  
 K = 5 – 38 mm x 286 mm  
 L = 6 – 38 mm x 286 mm

## Notes to Table 9.40.3.3.O.:

- (1) Loads are applied to the beam intermittently.
- (2) A dead load of 0.584 kN/m is assumed for all beams.
- (3) Floors systems supporting heavy loads over larger spans will require the use of steel beams or other specialized materials.

Table 9.40.3.3.P.

Built-up Wood Beam Sizes for Farm Buildings of Low Human Occupancy—Continuous Loads<sup>(1)</sup>

Forming Part of Article 9.40.3.3.

Beam Span, m	Spruce-Pine-Fir, No. 1 and No. 2 (Dressed Lumber)						
	Total Load on Beam, kN/m						
	5.84	8.76	11.67	14.59	17.51	20.43	23.35
1.8	A	A	B	D	G	J	L
2.4	A	C	E	J	L	—	—
3.0	D	H	J	L	—	—	—
3.6	H	K	—	—	—	—	—
4.2	K	—	—	—	—	—	—
4.8	L	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8

## Legend - Beam Sizes

A = 3 – 38 mm x 184 mm  
 B = 4 – 38 mm x 184 mm  
 C = 3 – 38 mm x 235 mm  
 D = 5 – 38 mm x 184 mm  
 E = 3 – 38 mm x 286 mm  
 F = 4 – 38 mm x 235 mm  
 G = 6 – 38 mm x 184 mm  
 H = 5 – 38 mm x 235 mm  
 I = 4 – 38 mm x 286 mm  
 J = 6 – 38 mm x 235 mm  
 K = 5 – 38 mm x 286 mm  
 L = 6 – 38 mm x 286 mm

## Notes to Table 9.40.3.3.P.:

- (1) For use of floors that support hay, straw, grain or other continuous loads.
- (2) A dead load of 0.48 kPa is assumed for all beams.
- (3) Floor systems supporting heavy loads over larger spans will require use of steel beams or other specialized materials.



Table 9.40.3.3.Q.

Ungraded Lumber, Full-Dimension Roof Beam Sizes for Farm Buildings of Low Human Occupancy<sup>(1)</sup>

Forming Part of Article 9.40.3.3.

Beam Span, m	Total Load on Built-up Wood Beam, kN/m							
	5.84	8.76	11.67	14.59	17.51	20.43	23.35	26.27
1.8	A	A	B	C	D	F	G	H
2.4	B	D	E	H	I	J	—	—
3.0	D	G	I	—	—	—	—	—
3.6	G	J	—	—	—	—	—	—
4.2	J	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9

## Legend - Built-up Wood Beam Sizes

A = 3 – 50.8 mm x 203.2 mm  
 B = 4 – 50.8 mm x 203.2 mm  
 C = 3 – 50.8 mm x 254.0 mm  
 D = 5 – 50.8 mm x 203.2 mm  
 E = 6 – 50.8 mm x 203.2 mm  
 F = 4 – 50.8 mm x 254.0 mm  
 G = 5 – 50.8 mm x 254.0 mm  
 H = 4 – 50.8 mm x 304.8 mm  
 I = 5 – 50.8 mm x 304.8 mm  
 J = 6 – 50.8 mm x 304.8 mm

## Notes to Table 9.40.3.3.Q.:

- (1) *Ungraded lumber*, full-dimension, built-up wood beam.  
 (2) A dead load of 0.584 kN/m is assumed.  
 (3) Beams are sized for roof load only.

Table 9.40.3.3.R.

Ungraded Lumber, Full-Dimension Roof Beam Sizes for Farm Buildings of Low Human Occupancy<sup>(1)</sup>

Forming Part of Article 9.40.3.3.

Beam Span, m	Total Load on Built-up Sawn Beam, kN/m							
	5.84	8.76	11.67	14.59	17.51	20.43	23.35	26.27
1.8	A	A	B	C	D	E	F	G
2.4	A	B	D	D	F	G	—	—
3.0	C	D	E	F	—	—	—	—
3.6	D	F	G	—	—	—	—	—
4.2	E	G	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9

## Legend - Sawn Beam Sizes

A = 127.0 mm x 203.2 mm  
 B = 127.0 mm x 254.0 mm  
 C = 152.4 mm x 254.0 mm  
 D = 203.2 mm x 254.0 mm  
 E = 203.2 mm x 304.8 mm  
 F = 254.0 mm x 304.8 mm  
 G = 254.0 mm x 355.6 mm

## Notes to Table 9.40.3.3.R.:

- (1) *Ungraded lumber*, full-dimension, sawn wood beam.  
 (2) A dead load of 0.584 kN/m is assumed.  
 (3) Beams are sized for roof load only.

Table 9.40.3.3.S.

## Roof Plate-Beams and Lintels for Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.3.

Building Width, m	Spruce-Pine-Fir, No. 1 and No. 2 (Dressed Lumber)								
	Total Roof Load, kPa, with Post Spacing at 2.4 m								
	A	B	C	D	E	F	G	H	I
7.3	1.67	2.77	3.68	2.49	4.11	5.50	3.35	5.55	7.42
8.5	1.43	2.34	3.16	2.15	3.54	4.74	2.87	4.74	6.36
9.7	1.24	2.05	2.77	1.86	3.11	4.11	2.53	4.16	5.55
10.9	—	1.81	2.44	1.67	2.72	3.68	2.25	3.68	4.93
12.1	—	1.62	2.20	1.48	2.49	3.30	2.01	3.30	4.45
13.4	—	1.48	2.01	1.34	2.25	3.01	1.81	3.01	4.02
14.6	—	1.38	1.81	1.24	2.05	2.72	1.67	2.77	3.68
15.8	—	1.24	1.67	—	1.91	2.53	1.53	2.53	3.40
17.0	—	—	1.58	—	1.77	2.34	1.43	2.39	3.16
18.2	—	—	1.48	—	1.62	2.20	1.34	2.20	2.96
Building Width, m	Total Roof Load, kPa, with Post Spacing at 3.0 m								
	A	B	C	D	E	F	G	H	I
7.3	—	1.72	2.29	1.53	2.58	3.44	2.10	3.44	4.64
8.5	—	1.48	1.96	1.34	2.20	2.96	1.77	2.96	3.97
9.7	—	1.29	1.72	—	1.91	2.58	1.58	2.58	3.44
10.9	—	—	1.53	—	1.72	2.29	1.38	2.29	3.06
12.1	—	—	1.38	—	1.53	2.05	1.24	2.05	2.77
13.4	—	—	1.24	—	1.38	1.86	—	1.86	2.53
14.6	—	—	—	—	1.29	1.72	—	1.72	2.29
15.8	—	—	—	—	—	1.58	—	1.58	2.10
17.0	—	—	—	—	—	1.48	—	1.48	1.96
18.2	—	—	—	—	—	1.38	—	1.38	1.81
Building Width, m	Total Roof Load, kPa, with Post Spacing at 3.6 m								
	A	B	C	D	E	F	G	H	I
7.3	—	1.38	1.81	1.24	2.05	2.72	1.67	2.77	3.68
8.5	—	—	1.58	—	1.77	2.34	1.43	2.39	3.16
9.7	—	—	1.38	—	1.53	2.05	1.24	2.05	2.77
10.9	—	—	1.19	—	1.38	1.81	—	1.81	2.44
12.1	—	—	—	—	1.24	1.62	—	1.67	2.20
13.4	—	—	—	—	—	1.48	—	1.48	2.01
14.6	—	—	—	—	—	1.38	—	1.38	1.81
15.8	—	—	—	—	—	1.24	—	1.29	1.67
17.0	—	—	—	—	—	—	—	—	1.58
18.2	—	—	—	—	—	—	—	—	1.48
Column 1	2	3	4	5	6	7	8	9	10

## Legend - Roof Plate-Beam and Lintel Sizes

A = 2 – 38 mm x 184 mm  
 B = 3 – 38 mm x 184 mm  
 C = 4 – 38 mm x 184 mm  
 D = 2 – 38 mm x 235 mm  
 E = 3 – 38 mm x 235 mm  
 F = 4 – 38 mm x 235 mm  
 G = 2 – 38 mm x 286 mm  
 H = 3 – 38 mm x 286 mm  
 I = 4 – 38 mm x 286 mm

## Notes to Table 9.40.3.3.S.:

- (1) Trusses are at 1.2 m on centres.
- (2) Plate-beam/lintel loading can be very significant.
- (3) Specifications for anchorage at supporting posts must be specified by a competent designer.

Table 9.40.3.3.T.

## Roof Plate-Beams and Lintels for Farm Buildings of Low Human Occupancy

Forming Part of Article 9.40.3.3.

Building Width, m	Ungraded Lumber-Full Dimension								
	Total Roof Load, kPa, with Post Spacing at 2.4 m								
	A	B	C	D	E	F	G	H	I
7.3	—	1.72	2.29	1.48	2.44	3.25	1.91	3.20	4.26
8.5	—	1.43	1.96	1.24	2.10	2.77	1.67	2.72	3.68
9.7	—	1.29	1.72	—	1.81	2.44	1.43	2.39	3.20
10.9	—	—	1.53	—	1.62	2.15	1.29	2.15	2.87
12.1	—	—	1.34	—	1.48	1.96	—	1.91	2.58
13.4	—	—	1.24	—	1.34	1.77	—	1.72	2.34
14.6	—	—	—	—	1.19	1.62	—	1.58	2.15
15.8	—	—	—	—	—	1.48	—	1.48	1.96
17.0	—	—	—	—	—	1.38	—	1.38	1.81
18.2	—	—	—	—	—	1.29	—	1.29	1.72
Building Width, m	Total Roof Load, kPa, with Post Spacing at 3.0 m								
	A	B	C	D	E	F	G	H	I
7.3	—	—	1.43	—	1.53	2.05	1.19	2.01	2.68
8.5	—	—	1.19	—	1.29	1.72	—	1.72	2.29
9.7	—	—	—	—	—	1.53	—	1.48	2.01
10.9	—	—	—	—	—	1.34	—	1.34	1.77
12.1	—	—	—	—	—	1.19	—	—	1.58
13.4	—	—	—	—	—	—	—	—	1.43
14.6	—	—	—	—	—	—	—	—	1.34
15.8	—	—	—	—	—	—	—	—	1.24
17.0	—	—	—	—	—	—	—	—	—
18.2	—	—	—	—	—	—	—	—	—
Building Width, m	Total Roof Load, kPa, with Post Spacing at 3.6 m								
	A	B	C	D	E	F	G	H	I
7.3	—	—	—	—	1.19	1.62	—	1.58	2.15
8.5	—	—	—	—	—	1.38	—	1.38	1.81
9.7	—	—	—	—	—	1.19	—	—	1.58
10.9	—	—	—	—	—	—	—	—	1.43
12.1	—	—	—	—	—	—	—	—	1.29
13.4	—	—	—	—	—	—	—	—	—
14.6	—	—	—	—	—	—	—	—	—
15.8	—	—	—	—	—	—	—	—	—
17.0	—	—	—	—	—	—	—	—	—
18.2	—	—	—	—	—	—	—	—	—
Column 1	2	3	4	5	6	7	8	9	10

## Legend - Roof Plate-Beam and Lintel Sizes:

A = 2 - 50.8 mm x 203.2 mm

B = 3 - 50.8 mm x 203.2 mm

C = 4 - 50.8 mm x 203.2 mm

D = 2 - 50.8 mm x 254.0 mm

E = 3 - 50.8 mm x 254.0 mm

F = 4 - 50.8 mm x 254.0 mm

G = 2 - 50.8 mm x 304.8 mm

H = 3 - 50.8 mm x 304.8 mm

I = 4 - 50.8 mm x 304.8 mm

## Notes to Table 9.40.3.3.T.:

(1) Trusses are at 1.2 m on centres.

(2) Plate-beam/lintel loading can be very significant.

(3) Specifications for anchorage at supporting posts must be specified by a competent designer.



Table 9.40.3.4.U.

## Stud Sizes for Farm Buildings of Low Human Occupancy (Single Storey)

Forming Part of Article 9.40.3.4.

Sidewall Height, m	Total Roof Load, kPa	Spruce-Pine-Fir, No. 1 and No. 2 (Dressed Lumber)															
		Wind Load: $q_{10} \leq 0.30$ kPa								Wind Load: $q_{10} \leq 0.45$ kPa							
		400 mm o.c.				600 mm o.c.				400 mm o.c.				600 mm o.c.			
		Building Width, m				Building Width, m				Building Width, m				Building Width, m			
		9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3
3.0	1.9	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	B
	2.4	A	A	A	A	A	A	B	B	A	A	A	A	A	A	B	B
	2.8	A	A	A	A	A	A	B	B	A	A	A	A	A	B	B	B
	3.3	A	A	A	B	A	B	B	B	A	A	A	B	A	B	B	B
3.6	1.9	A	A	A	B	A	B	B	B	A	A	A	B	B	B	B	B
	2.4	A	A	B	B	B	B	B	B	A	A	B	B	B	B	B	B
	2.8	A	B	B	B	B	B	B	B	A	B	B	B	B	B	B	B
	3.3	A	B	B	B	B	B	B	B	A	B	B	B	B	B	B	B
4.2	1.9	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	2.4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	2.8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	3.3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
4.8	1.9	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	2.4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C
	2.8	B	B	B	B	B	B	B	C	B	B	B	B	B	B	C	C
	3.3	B	B	B	B	B	B	C	C	B	B	B	B	B	B	C	C
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

## Legend - Stud Sizes

A = 38 mm x 89 mm

B = 38 mm x 140 mm

C = 38 mm x 184 mm or double 38 mm x 140 mm under the trusses, with an intermediate 38 mm x 140 mm stud at 600 mm.

## Notes to Table 9.40.3.4.U.:

- (1) Designs are based on load combinations of total roof load and wind load acting at the same time on a closed *building*.
- (2) It is assumed that the double top plate is rigid enough to cause load sharing amongst all studs regardless of the spacing 400 mm or 600 mm.
- (3) Solid bridging shall be used on all walls as follows:  
 $\leq 3.0$  m: 1 row at mid-height.  
3.6 m - 4.2 m: 2 rows at third-points.  
4.8 m: 3 rows at quarter-points.
- (4) Wind bracing shall not impose additional bending forces onto the stud.

Table 9.40.3.4.V.

**Stud Sizes for Farm Buildings of Low Human Occupancy  
(With Second Storey Loading)**

Forming Part of Article 9.40.3.4.

Sidewall Height, m	Total Roof Load, kPa	Spruce-Pine-Fir, No. 1 and No. 2 (Dressed Lumber)																Second Storey Plate, kN/m
		Wind Load: q10 ≤ 0.30 kPa								Wind Load: q10 ≤ 0.45 kPa								
		400 mm o.c.				600 mm o.c.				400 mm o.c.				600 mm o.c.				
		Building Width, m				Building Width, m				Building Width, m				Building Width, m				
		9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3	
3.0	1.9	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	14.6
	2.4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	2.8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	3.3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
3.6	1.9	B	B	B	B	B	B	B	C	B	B	B	B	B	B	C	C	14.6
	2.4	B	B	B	B	B	B	C	C	B	B	B	B	B	C	C	C	
	2.8	B	B	B	B	B	B	C	C	B	B	B	B	B	C	C	C	
	3.3	B	B	B	B	B	C	C	C	B	B	B	B	C	C	C	C	
3.0	1.9	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	7.3
	2.4	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	2.8	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	3.3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
3.6	1.9	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	7.3
	2.4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	2.8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	3.3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C	
3.0	1.9	A	A	A	A	A	B	B	B	A	A	A	A	B	B	B	B	3.6
	2.4	A	A	A	B	B	B	B	B	A	A	A	A	B	B	B	B	
	2.8	A	A	B	B	B	B	B	B	A	A	B	B	B	B	B	B	
	3.3	A	A	B	B	B	B	B	B	A	B	B	B	B	B	B	B	
3.6	1.9	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	3.6
	2.4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	2.8	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	3.3	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

**Legend - Stud Sizes**

A = 38 mm x 89 mm

B = 38 mm x 140 mm

C = 38 mm x 184 mm or double 38 mm x 140 mm

**Notes to Table 9.40.3.4.V.:**

- (1) Design is based on load combinations of total roof load, wind load and stored product acting at the same time on a closed building.
- (2) All notes following Table 9.40.3.4.U. apply, with the following conditions/exceptions:  
 14.6 kN/m loading: Full 4.8 m sidewall hay/straw storage space above. It is supported by beams spaced at 3.6 m o.c. The outside plate carries a 1.8 m floor width. If the loading is greater, refer to a qualified person for design.  
 7.3 kN/m loading: Full 2.4 m sidewall hay/straw storage space above or a gambrel roof structure >9.14 m in total width. Floor support beams as above.  
 3.6 kN/m loading: Small gambrel roof structure or storage space for light storage. Floor support beams as above.

Table 9.40.3.4.W.

## Stud Sizes for Farm Buildings of Low Human Occupancy (Single Storey)

Forming Part of Article 9.40.3.4.

Sidewall Height, m	Total Roof Load, kPa	Ungraded Lumber, Full-Dimensioned															
		Wind Load: $q_{10} \leq 0.30$ kPa								Wind Load: $q_{10} \leq 0.45$ kPa							
		400 mm o.c.				600 mm o.c.				400 mm o.c.				600 mm o.c.			
		Building Width, m				Building Width, m				Building Width, m				Building Width, m			
		9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3	9.14	12.2	15.2	18.3
3.0	1.9	A	A	A	A	A	A	A	B	A	A	A	A	A	A	B	B
	2.4	A	A	A	A	A	A	B	B	A	A	A	A	A	B	B	B
	2.8	A	A	A	A	A	B	B	B	A	A	A	B	B	B	B	B
	3.3	A	A	A	B	A	B	B	B	A	A	A	B	A	B	B	B
3.6	1.9	A	A	A	B	A	B	B	B	A	A	A	B	B	B	B	B
	2.4	A	A	B	B	B	B	B	B	A	A	B	B	B	B	B	B
	2.8	A	B	B	B	B	B	B	B	A	B	B	B	B	B	B	B
	3.3	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C
4.2	1.9	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	2.4	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	C
	2.8	B	B	B	B	B	B	B	C	B	B	B	B	B	B	C	C
	3.3	B	B	B	B	B	B	C	C	B	B	B	B	B	C	C	C
4.8	1.9	B	B	B	B	B	B	B	C	B	B	B	B	B	B	C	C
	2.4	B	B	B	B	B	B	C	C	B	B	B	B	B	C	C	C
	2.8	B	B	B	B	B	B	C	C	B	B	B	C	C	C	C	C
	3.3	B	B	B	B	B	C	C	C	B	B	B	C	C	C	C	C
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

## Legend - Stud Sizes

A = 50.8 mm x 101.6 mm

B = 50.8 mm x 152.4 mm

C = 50.8 mm x 203.2 mm or double 50.8 mm x 152.4 mm under the trusses, with an intermediate 50.8 mm x 152.4 mm stud at 600 mm

## Notes to Table 9.40.3.4.W.:

- (1) Designs are based on load combinations of total roof load and wind load acting at the same time on a closed *building*.
- (2) It is assumed that the double top plate is rigid enough to cause load sharing amongst all studs regardless of the spacing 400 mm or 600 mm.
- (3) Solid bridging shall be used on all walls as follows:
  - $\leq 3.0$  m: 1 row at mid-height.
  - 3.6 m to 4.2 m: 2 rows at third-points.
  - 4.8 m: 3 rows at quarter-points.
- (4) Wind bracing shall not impose additional bending forces onto the stud.



**Section 9.41. Additional Requirements for Change of Use****9.41.1. Scope****9.41.1.1. Application**

(1) This Section applies where proposed *construction* in respect of an existing *building* will result in the following changes of use of all or part of the *building*

- (a) a change of the *major occupancy* of all or part of a *building* that is designated with a "Y" in Table 2.4.1.1.,
- (b) a *suite* of a Group C *major occupancy* is converted into more than one *suite* of Group C *major occupancy*,
- (c) a *farm building* or part of a *farm building* is changed to a *major occupancy*, or
- (d) the use of a *building* or part of a *building* is changed and the previous *major occupancy* of the *building* or part of the *building* cannot be determined.

(2) The changes in use described in Clauses (1)(b) to (d) shall also be deemed to be a change of *major occupancy* for the purposes of this Section and Sentence 11.4.2.1.(1).

(3) The requirements of this Section are in addition to the requirements of other Parts of the Code as they apply to the proposed *construction*.

**9.41.2. Additional Construction****9.41.2.1. Change of Use and Compensating Construction**

(1) Where proposed *construction* will result in a change of use described in Clauses 9.41.1.1.(1)(a) to (d), additional *construction* shall be required in order that the *building* or part of a *building* subject to the change of use conforms to the requirements of Section 9.5. and 9.7., Subsection 9.10.16., Sections 9.31. and 9.32., and Subsections 9.34.1., 9.34.2. and 9.34.3. as they apply to the new *major occupancy* that the *building* or part of a *building* is to support.

(2) For the purposes of this Article, existing *buildings* shall be classified as to their *construction* and *occupancy* as provided for in Sentence 11.2.1.1.(1).

**9.41.2.2. Performance Level Evaluation and Compensating Construction**

(1) The *performance level* of a *building* after *construction* shall not be less than the *performance level* of the *building* prior to *construction*.

(2) For the purposes of Sentence (1), reduction of *performance level* shall be determined in accordance with Articles 11.4.2.1. and 11.4.2.3.

(3) Where the proposed *construction* would reduce the *performance level* of an existing *building*, compensating *construction* shall be required in conformance with Articles 11.4.3.1., 11.4.3.2. and 11.4.3.4.

(4) Section 11.5. applies in respect of the requirements of Sentences 11.4.3.4.(1), (3) and (4).

**Table A-1****Maximum Spans for Floor Joists - General Cases<sup>(1)</sup>**

Forming Part of Sentence 9.23.4.2.(1)

Commercial Designation	Grade	Joist Size, mm	Maximum Span, m								
			With Strapping			With Bridging			With Strapping and Bridging		
			Joist Spacing, mm			Joist Spacing, mm			Joist Spacing, mm		
			300	400	600	300	400	600	300	400	600
Douglas Fir - Larch (includes Douglas Fir and Western Larch)	Select Structural	38 x 89	2.13	1.97	1.73	2.19	1.99	1.73	2.19	1.99	1.73
		38 x 140	3.23	3.07	2.73	3.44	3.12	2.73	3.44	3.12	2.73
		38 x 184	3.88	3.69	3.51	4.18	3.92	3.59	4.37	4.07	3.59
		38 x 235	4.57	4.34	4.13	4.86	4.57	4.29	5.05	4.70	4.39
		38 x 286	5.21	4.95	4.71	5.49	5.16	4.85	5.66	5.28	4.92
	No. 1 and No. 2	38 x 89	2.00	1.85	1.66	2.09	1.90	1.66	2.09	1.90	1.66
		38 x 140	3.09	2.91	2.62	3.29	2.99	2.62	3.29	2.99	2.62
		38 x 184	3.71	3.53	3.36	4.00	3.76	3.44	4.19	3.90	3.44
		38 x 235	4.38	4.16	3.96	4.66	4.38	4.11	4.84	4.51	4.20
		38 x 286	4.99	4.75	4.52	5.26	4.94	4.65	5.43	5.06	4.72
	No. 3	38 x 89	1.90	1.69	1.38	1.95	1.69	1.38	1.95	1.69	1.38
		38 x 140	2.78	2.41	1.97	2.78	2.41	1.97	2.78	2.41	1.97
		38 x 184	3.38	2.93	2.39	3.38	2.93	2.39	3.38	2.93	2.39
		38 x 235	4.14	3.58	3.93	4.14	3.58	2.93	4.14	3.58	2.93
		38 x 286	4.80	4.16	3.39	4.80	4.16	3.39	4.80	4.16	3.39
	Construction	38 x 89	1.90	1.77	1.61	2.03	1.84	1.61	2.03	1.84	1.61
	Standard	38 x 89	1.81	1.63	1.33	1.88	1.63	1.33	1.88	1.63	1.33
Column 1	2	3	4	5	6	7	8	9	10	11	12

Commercial Designation	Grade	Joist Size, mm	Maximum Span, m								
			With Strapping			With Bridging			With Strapping and Bridging		
			Joist Spacing, mm			Joist Spacing, mm			Joist Spacing, mm		
			300	400	600	300	400	600	300	400	600
Hem - Fir (includes Western Hemlock and Amabilis Fir)	Select Structural	38 x 89	2.08	1.93	1.71	2.16	1.96	1.71	2.16	1.96	1.71
		38 x 140	3.18	3.03	2.69	3.39	3.08	2.69	3.39	3.08	2.69
		38 x 184	3.82	3.64	3.46	4.12	3.87	3.54	4.31	4.02	3.54
		38 x 235	4.50	4.28	4.08	4.80	4.51	4.23	4.98	4.64	4.33
	No. 1 and No. 2	38 x 286	5.14	4.89	4.65	5.42	5.09	4.78	5.59	5.21	4.86
		38 x 89	2.00	1.85	1.66	2.09	1.90	1.66	2.09	1.90	1.66
		38 x 140	3.09	2.91	2.62	3.29	2.99	2.62	3.29	2.99	2.62
		38 x 184	3.71	3.53	3.36	4.00	3.76	3.44	4.19	3.90	3.44
		38 x 235	4.38	4.16	3.96	4.66	4.38	4.11	4.84	4.51	4.20
	No. 3	38 x 286	4.99	4.75	4.52	5.26	4.94	4.65	5.43	5.06	4.72
		38 x 89	1.90	1.77	1.61	2.03	1.84	1.61	2.03	1.84	1.61
		38 x 140	2.99	2.78	2.43	3.19	2.90	2.43	3.19	2.90	2.43
		38 x 184	3.60	3.42	2.95	3.88	3.61	2.95	4.06	3.61	2.95
		38 x 235	4.24	4.03	3.61	4.51	4.24	3.61	4.68	4.37	3.61
	Construction	38 x 286	4.84	4.60	4.19	5.10	4.79	4.19	5.26	4.90	4.19
		38 x 89	1.90	1.77	1.61	2.03	1.84	1.61	2.03	1.84	1.61
	Standard	38 x 89	1.81	1.68	1.39	1.96	1.71	1.39	1.96	1.71	1.39
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38 x 89	1.95	1.81	1.64	2.06	1.87	1.64	2.06	1.87	1.64
		38 x 140	3.05	2.85	2.57	3.24	2.95	2.57	3.24	2.95	2.57
		38 x 184	3.66	3.48	3.31	3.94	3.70	3.38	4.12	3.84	3.38
		38 x 235	4.31	4.10	3.90	4.59	4.31	4.05	4.76	4.44	4.14
	No. 1 and No. 2	38 x 286	4.91	4.67	4.45	5.18	4.87	4.57	5.34	4.98	4.64
		38 x 89	1.86	1.72	1.58	1.99	1.81	1.58	1.99	1.81	1.58
		38 x 140	2.92	2.71	2.49	3.14	2.85	2.49	3.14	2.85	2.49
		38 x 184	3.54	3.36	3.20	3.81	3.58	3.27	3.99	3.72	3.27
		38 x 235	4.17	3.96	3.77	4.44	4.17	3.92	4.60	4.29	4.00
	No. 3	38 x 286	4.75	4.52	4.30	5.01	4.71	4.42	5.17	4.82	4.49
		38 x 89	1.81	1.68	1.55	1.96	1.78	1.55	1.96	1.78	1.55
		38 x 140	2.84	2.64	2.43	3.08	2.80	2.43	3.08	2.80	2.43
		38 x 184	3.47	3.30	2.95	3.74	3.52	2.95	3.92	3.61	2.95
		38 x 235	4.09	3.89	3.61	4.36	4.09	3.61	4.52	4.22	3.61
	Construction	38 x 286	4.67	4.44	4.19	4.92	4.62	4.19	5.08	4.73	4.19
		38 x 89	1.81	1.68	1.55	1.96	1.78	1.55	1.96	1.78	1.55
	Standard	38 x 89	1.70	1.58	1.44	1.88	1.71	1.44	1.88	1.71	1.44
Northern Species (includes any Canadian Species covered by the NLGA Standard Grading Rules)	Select Structural	38 x 89	1.65	1.53	1.42	1.84	1.68	1.46	1.84	1.68	1.46
		38 x 140	2.59	2.41	2.24	2.90	2.63	2.30	2.90	2.63	2.30
		38 x 184	3.27	3.11	2.94	3.52	3.31	3.03	3.69	3.44	3.03
		38 x 235	3.85	3.66	3.48	4.10	3.85	3.62	4.26	3.97	3.70
	No. 1 and No. 2	38 x 286	4.39	4.18	3.97	4.63	4.35	4.09	4.78	4.45	4.15
		38 x 89	1.59	1.48	1.37	1.80	1.64	1.43	1.80	1.64	1.43
		38 x 140	2.51	2.33	2.16	2.83	2.57	2.25	2.83	2.57	2.25
		38 x 184	3.19	3.04	2.84	3.44	3.23	2.96	3.60	3.36	2.96
		38 x 235	3.76	3.58	3.41	4.01	3.77	3.54	4.16	3.88	3.62
	No. 3	38 x 286	4.29	4.08	3.88	4.53	4.25	4.00	4.67	4.35	4.06
		38 x 89	1.54	1.43	1.32	1.74	1.57	1.36	1.76	1.60	1.36
		38 x 140	2.42	2.24	1.94	2.74	2.38	1.94	2.75	2.38	1.94
		38 x 184	3.12	2.90	2.37	3.35	2.90	2.37	3.35	2.90	2.37
		38 x 235	3.67	3.49	2.89	3.91	3.54	2.89	4.06	3.54	2.89
	Construction	38 x 286	4.19	3.98	3.36	4.42	4.11	3.36	4.55	4.11	3.36
		38 x 89	1.54	1.43	1.32	1.74	1.57	1.40	1.76	1.60	1.40
	Standard	38 x 89	1.48	1.37	1.15	1.63	1.41	1.15	1.63	1.41	1.15
Column 1	2	3	4	5	6	7	8	9	10	11	12

**Note to Table A-1:**

(1) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed *live load* on the floor does not exceed that specified for residential areas as described in Table 4.1.6.3.

Table A-2

Maximum Spans for Floor Joists—Special Cases<sup>(1)</sup>

Forming Part of Sentence 9.23.4.2.(1) and 9.23.4.4.(2)

Commercial Designation	Grade	Joist Size, mm	Maximum Span, m								
			Joists with Ceilings Attached to Wood Furring						Joists with Concrete Topping		
			Without Bridging			With Bridging			With or Without Bridging <sup>(2)</sup>		
			Joist Spacing, mm			Joist Spacing, mm			Joist Spacing, mm		
			300	400	600	300	400	600	300	400	600
Douglas Fir - Larch (includes Douglas Fir and Western Larch)	Select Structural	38 x 89	2.19	1.99	1.73	2.19	1.99	1.73	2.19	1.99	1.73
		38 x 140	3.44	3.12	2.73	3.44	3.12	2.73	3.44	3.12	2.73
		38 x 184	4.24	3.99	3.59	4.52	4.11	3.59	4.52	4.11	3.59
		38 x 235	4.98	4.69	4.29	5.47	5.20	4.58	5.77	5.24	4.58
		38 x 286	5.67	5.34	4.88	6.19	5.89	5.54	6.83	6.37	5.58
	No. 1 and No. 2	38 x 89	2.09	1.90	1.66	2.09	1.90	1.66	2.09	1.90	1.66
		38 x 140	3.29	2.99	2.62	3.29	2.99	2.62	3.29	2.99	2.55
		38 x 184	4.06	3.83	3.44	4.33	3.93	3.44	4.33	3.81	3.11
		38 x 235	4.78	4.50	4.11	5.24	4.98	4.31	5.37	4.65	3.80
		38 x 286	5.44	5.12	4.68	5.93	5.64	5.00	6.24	5.40	4.41
	No. 3	38 x 89	1.95	1.69	1.38	1.95	1.69	1.38	1.72	1.49	1.21
		38 x 140	2.78	2.41	1.97	2.78	2.41	1.97	2.45	2.12	1.73
		38 x 184	3.38	2.93	2.39	3.38	2.93	2.39	2.98	2.58	2.11
		38 x 235	4.14	3.58	2.93	4.14	3.58	2.93	3.65	3.16	2.58
		38 x 286	4.80	4.16	3.39	4.80	4.16	3.39	4.23	3.66	2.99
	Construction	38 x 89	2.03	1.84	1.61	2.03	1.84	1.61	2.03	1.84	1.61
	Standard	38 x 89	1.88	1.63	1.33	1.88	1.63	1.33	1.66	1.44	1.17
Hem - Fir (includes Western Hemlock and Amabilis Fir)	Select Structural	38 x 89	2.16	1.96	1.71	2.16	1.96	1.71	2.16	1.96	1.71
		38 x 140	3.39	3.08	2.69	3.39	3.08	2.69	3.39	3.08	2.69
		38 x 184	4.18	3.94	3.54	4.46	4.05	3.54	4.46	4.05	3.54
		38 x 235	4.92	4.63	4.23	5.39	5.13	4.52	5.69	5.17	4.52
		38 x 286	5.60	5.27	4.82	6.10	5.81	5.47	6.74	6.28	5.50
	No. 1 and No. 2	38 x 89	2.09	1.90	1.66	2.09	1.90	1.66	2.09	1.90	1.66
		38 x 140	3.29	2.99	2.62	3.29	2.99	2.62	3.29	2.99	2.62
		38 x 184	4.06	3.83	3.44	4.33	3.93	3.44	4.33	3.93	3.26
		38 x 235	4.78	4.50	4.11	5.24	4.98	4.39	5.53	4.88	3.99
		38 x 286	5.44	5.12	4.68	5.93	5.64	5.25	6.54	5.66	4.63
	No. 3	38 x 89	2.03	1.84	1.61	2.03	1.84	1.61	2.03	1.83	1.50
		38 x 140	3.19	2.90	2.43	3.19	2.90	2.43	3.02	2.62	2.14
		38 x 184	3.94	3.61	2.95	4.17	3.61	2.95	3.68	3.18	2.60
		38 x 235	4.63	4.36	3.61	5.08	4.42	3.61	4.50	3.89	3.18
		38 x 286	5.27	4.96	4.19	5.74	5.13	4.19	5.22	4.52	3.69
	Construction	38 x 89	2.03	1.84	1.61	2.03	1.84	1.61	2.03	1.84	1.61
	Standard	38 x 89	1.96	1.71	1.39	1.96	1.71	1.39	1.74	1.50	1.23
Column 1	2	3	4	5	6	7	8	9	10	11	12



Commercial Designation	Grade	Joist Size, mm	Maximum Span, m								
			Joists with Ceilings Attached to Wood Furring						Joists with Concrete Topping		
			Without Bridging			With Bridging			With or Without Bridging <sup>(2)</sup>		
			Joist Spacing, mm			Joist Spacing, mm			Joist Spacing, mm		
			300	400	600	300	400	600	300	400	600
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38 x 89	2.06	1.87	1.64	2.06	1.87	1.64	2.06	1.87	1.64
		38 x 140	3.24	2.95	2.57	3.24	2.95	2.57	3.24	2.95	2.57
		38 x 184	4.00	3.77	3.38	4.26	3.87	3.38	4.26	3.87	3.38
		38 x 235	4.70	4.43	4.05	5.16	4.91	4.32	5.45	4.95	4.32
		38 x 286	5.35	5.04	4.61	5.84	5.55	5.23	6.45	6.01	5.26
	No. 1 and No. 2	38 x 89	1.99	1.81	1.58	1.99	1.81	1.58	1.99	1.81	1.58
		38 x 140	3.14	2.85	2.49	3.14	2.85	2.49	3.14	2.85	2.49
		38 x 184	3.87	3.64	3.27	4.12	3.75	3.27	4.12	3.75	3.27
		38 x 235	4.55	4.28	3.91	4.99	4.75	4.18	5.27	4.79	4.13
		38 x 286	5.18	4.88	4.46	5.65	5.37	5.06	6.23	5.81	4.79
	No. 3	38 x 89	1.96	1.78	1.55	1.96	1.78	1.55	1.96	1.78	1.50
		38 x 140	3.08	2.80	2.43	3.08	2.80	2.43	3.02	2.62	2.14
		38 x 184	3.80	3.58	2.95	4.05	3.61	2.95	3.68	3.18	2.60
		38 x 235	4.47	4.21	3.61	4.90	4.42	3.61	4.50	3.89	3.18
		38 x 286	5.09	4.79	4.19	5.55	5.13	4.19	5.22	4.52	3.69
	Construction	38 x 89	1.96	1.78	1.55	1.96	1.78	1.55	1.96	1.78	1.55
	Standard	38 x 89	1.88	1.71	1.44	1.88	1.71	1.44	1.80	1.56	1.27
Northern Species (includes any Canadian Species covered by the NLGA Standard Grading Rules)	Select Structural	38 x 89	1.84	1.68	1.46	1.84	1.68	1.46	1.84	1.68	1.46
		38 x 140	2.90	2.63	2.30	2.90	2.63	2.30	2.90	2.63	2.30
		38 x 184	3.58	3.37	3.03	3.81	3.46	3.03	3.81	3.46	3.03
		38 x 235	4.20	3.96	3.62	4.61	4.39	3.86	4.87	4.42	3.86
		38 x 286	4.79	4.51	4.12	5.22	4.96	4.68	5.76	5.37	4.54
	No. 1 and No. 2	38 x 89	1.80	1.64	1.43	1.80	1.64	1.43	1.80	1.64	1.43
		38 x 140	2.83	2.57	2.25	2.83	2.57	2.25	2.83	2.57	2.23
		38 x 184	3.50	3.29	2.96	3.72	3.38	2.96	3.72	3.32	2.71
		38 x 235	4.11	3.87	3.54	4.51	4.29	3.76	4.69	4.06	3.31
		38 x 286	4.68	4.40	4.03	5.10	4.85	4.36	5.44	4.71	3.84
	No. 3	38 x 89	1.76	1.60	1.36	1.76	1.60	1.36	1.70	1.47	1.20
		38 x 140	2.75	2.38	1.94	2.75	2.38	1.94	2.42	2.10	1.71
		38 x 184	3.35	2.90	2.37	3.35	2.90	2.37	2.95	2.55	2.08
		38 x 235	4.01	3.54	2.89	4.09	3.54	2.89	3.61	3.12	2.55
		38 x 286	4.56	4.11	3.36	4.75	4.11	3.36	4.18	3.62	2.96
	Construction	38 x 89	1.76	1.60	1.40	1.76	1.60	1.40	1.76	1.60	1.37
	Standard	38 x 89	1.63	1.41	1.15	1.63	1.41	1.15	1.44	1.25	1.02
Column 1	2	3	4	5	6	7	8	9	10	11	12

**Notes to Table A-2:**

(1) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed *live load* on the floor does not exceed that specified for residential areas as described in Table 4.1.6.3.

(2) No bridging is assumed for spans for floor joists with concrete topping.

Table A-3

## Maximum Spans for Ceiling Joists - Attic not Accessible by a Stairway

Forming Part of Sentence 9.23.4.2.(1)

Commercial Designation	Grade	Joist Size, mm	Maximum Span, m		
			Joist Spacing, mm		
			300	400	600
Douglas Fir - Larch (includes Douglas Fir and Western Larch)	Select Structural	38 x 89	3.41	3.10	2.71
		38 x 140	5.37	4.88	4.26
		38 x 184	7.05	6.40	5.59
		38 x 235	9.01	8.18	7.15
		38 x 286	10.96	9.96	8.70
	No. 1 and No. 2	38 x 89	3.27	2.97	2.59
		38 x 140	5.14	4.67	4.08
		38 x 184	6.76	6.14	5.36
		38 x 235	8.63	7.84	6.85
		38 x 286	10.50	9.54	8.34
	No. 3	38 x 89	3.17	2.88	2.42
		38 x 140	4.89	4.23	3.46
38 x 184		5.95	5.15	4.20	
Construction	38 x 235	7.27	6.30	5.14	
	38 x 286	8.44	7.31	5.97	
	Standard	38 x 89	3.17	2.88	2.51
Hem - Fir (includes Western Hemlock and Amabilis Fir)	Select Structural	38 x 89	3.36	3.06	2.67
		38 x 140	5.29	4.81	4.20
		38 x 184	6.96	6.32	5.52
		38 x 235	8.88	8.07	7.05
		38 x 286	10.81	9.82	8.58
	No. 1 and No. 2	38 x 89	3.27	2.97	2.59
		38 x 140	5.14	4.67	4.08
		38 x 184	6.76	6.14	5.36
		38 x 235	8.63	7.84	6.85
		38 x 286	10.50	9.54	8.34
	No. 3	38 x 89	3.17	2.88	2.51
		38 x 140	4.98	4.53	3.95
38 x 184		6.55	5.95	5.19	
Construction	38 x 235	8.36	7.60	6.34	
	38 x 286	10.18	9.01	7.36	
	Standard	38 x 89	3.17	2.88	2.50
Spruce -Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38 x 89	3.22	2.92	2.55
		38 x 140	5.06	4.60	4.02
		38 x 184	6.65	6.05	5.28
		38 x 235	8.50	7.72	6.74
		38 x 286	10.34	9.40	8.21
	No. 1 and No. 2	38 x 89	3.11	2.83	2.47
		38 x 140	4.90	4.45	3.89
		38 x 184	6.44	5.85	5.11
		38 x 235	8.22	7.47	6.52
		38 x 286	10.00	9.09	7.94
	No. 3	38 x 89	3.06	2.78	2.43
		38 x 140	4.81	4.37	3.82
38 x 184		6.32	5.74	5.02	
Construction	38 x 235	8.07	7.33	6.34	
	38 x 286	9.82	8.93	7.36	
	Standard	38 x 89	3.06	2.78	2.43
Column 1	2	3	4	5	6

Commercial Designation	Grade	Joist Size, mm	Maximum Span, m		
			Joist Spacing, mm		
			300	400	600
Northern Species (includes any Canadian Species covered by the NLGA Standard Grading Rules)	Select Structural	38 x 89	2.88	2.61	2.28
		38 x 140	4.53	4.11	3.59
		38 x 184	5.95	5.40	4.72
		38 x 235	7.60	6.90	6.03
		38 x 286	9.25	8.40	7.34
	No. 1 and No. 2	38 x 89	2.81	2.55	2.23
		38 x 140	4.42	4.02	3.51
		38 x 184	5.81	5.28	4.61
		38 x 235	7.42	6.74	5.89
		38 x 286	9.03	8.21	7.17
	No. 3	38 x 89	2.74	2.49	2.18
		38 x 140	4.31	3.92	3.42
		38 x 184	5.67	5.09	4.16
		38 x 235	7.19	6.23	5.08
		38 x 286	8.34	7.23	5.90
	Construction	38 x 89	2.74	2.49	2.18
	Standard	38 x 89	2.67	2.43	2.03
Column 1	2	3	4	5	6

Table A-4

## Maximum Spans for Roof Joists - Specified Roof Snow Loads 1.0 to 2.0 kPa

Forming Part of Sentence 9.23.4.2.(1)

Commercial Designation	Grade	Joist Size, mm	Maximum Span, m								
			Specified Snow Load, kPa								
			1.0			1.5			2.0		
			Joist Spacing, mm			Joist Spacing, mm			Joist Spacing, mm		
			300	400	600	300	400	600	300	400	600
Douglas Fir - Larch (includes Douglas Fir and Western Larch)	Select Structural	38 x 89	2.71	2.46	2.15	2.37	2.15	1.88	2.15	1.95	1.71
		38 x 140	4.26	3.87	3.38	3.72	3.38	2.95	3.38	3.07	2.68
		38 x 184	5.60	5.09	4.44	4.89	4.44	3.88	4.44	4.04	3.53
		38 x 235	7.15	6.49	5.67	6.24	5.67	4.96	5.67	5.15	4.50
		38 x 286	8.70	7.90	6.91	7.60	6.91	6.03	6.91	6.27	5.48
	No. 1 and No. 2	38 x 89	2.59	2.36	2.06	2.27	2.06	1.80	2.06	1.87	1.63
		38 x 140	4.08	3.71	3.24	3.57	3.24	2.83	3.24	2.94	2.57
		38 x 184	5.36	4.87	4.26	4.69	4.26	3.72	4.26	3.87	3.38
		38 x 235	6.85	6.22	5.44	5.98	5.44	4.74	5.44	4.94	4.22
		38 x 286	8.34	7.57	6.40	7.28	6.62	5.50	6.62	6.00	4.90
	No. 3	38 x 89	2.49	2.16	1.76	2.14	1.85	1.51	1.91	1.65	1.35
		38 x 140	3.56	3.08	2.51	3.06	2.65	2.16	2.72	2.36	1.92
		38 x 184	4.33	3.75	3.06	3.72	3.22	2.63	3.31	2.87	2.34
		38 x 235	5.29	4.58	3.74	4.55	3.94	3.22	4.05	3.51	2.86
		38 x 286	6.14	5.32	4.34	5.28	4.57	3.73	4.70	4.07	3.32
	Construction	38 x 89	2.51	2.28	1.99	2.20	1.99	1.74	1.99	1.81	1.58
	Standard	38 x 89	2.41	2.08	1.70	2.07	1.79	1.46	1.84	1.60	1.30
Column 1	2	3	4	5	6	7	8	9	10	11	12



Commercial Designation	Grade	Joist Size, mm	Maximum Span, m								
			Specified Snow Load, kPa								
			1.0			1.5			2.0		
			Joist Spacing, mm			Joist Spacing, mm			Joist Spacing, mm		
			300	400	600	300	400	600	300	400	600
Hem - Fir (includes Western Hemlock and Amabilis Fir)	Select Structural	38 x 89	2.67	2.43	2.12	2.33	2.12	1.85	2.12	1.93	1.68
		38 x 140	4.20	3.82	3.33	3.67	3.33	2.91	3.33	3.03	2.65
		38 x 184	5.52	5.02	4.38	4.82	4.38	3.83	4.38	3.98	3.48
		38 x 235	7.05	6.41	5.60	6.16	5.60	4.89	5.60	5.09	4.44
	No. 1 and No. 2	38 x 286	8.58	7.80	6.81	7.50	6.81	5.95	6.81	6.19	5.41
		38 x 89	2.59	2.36	2.06	2.27	2.06	1.80	2.06	1.87	1.63
		38 x 140	4.08	3.71	3.24	3.57	3.24	2.83	3.24	2.94	2.57
		38 x 184	5.36	4.87	4.26	4.69	4.26	3.72	4.26	3.87	3.38
		38 x 235	6.85	6.22	5.44	5.98	5.44	4.75	5.44	4.94	4.32
		38 x 286	8.34	7.57	6.62	7.28	6.62	5.77	6.62	6.01	5.25
	No. 3	38 x 89	2.51	2.28	1.99	2.20	1.99	1.74	1.99	1.81	1.58
		38 x 140	3.95	3.59	3.10	3.45	3.14	2.67	3.14	2.85	2.37
		38 x 184	5.20	4.62	3.77	4.54	3.97	3.24	4.09	3.54	2.89
		38 x 235	6.53	5.65	4.61	5.61	4.86	3.97	5.00	4.33	3.53
		38 x 286	7.57	6.56	5.35	6.51	5.64	4.60	5.80	5.02	4.10
	Construction	38 x 89	2.51	2.28	1.99	2.20	1.99	1.74	1.99	1.81	1.58
	Standard	38 x 89	2.43	2.18	1.78	2.12	1.88	1.53	1.93	1.67	1.36
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38 x 89	2.55	2.32	2.03	2.23	2.03	1.77	2.03	1.84	1.61
		38 x 140	4.02	3.65	3.19	3.51	3.19	2.79	3.19	2.90	2.53
		38 x 184	5.28	4.80	4.19	4.61	4.19	3.66	4.19	3.81	3.33
		38 x 235	6.74	6.13	5.35	5.89	5.35	4.68	5.35	4.86	4.25
	No. 1 and No. 2	38 x 286	8.21	7.46	6.52	7.17	6.52	5.69	6.52	5.92	5.17
		38 x 89	2.47	2.24	1.96	2.16	1.96	1.71	1.96	1.78	1.56
		38 x 140	3.89	3.53	3.08	3.40	3.08	2.69	3.08	2.80	2.45
		38 x 184	5.11	4.64	4.05	4.46	4.05	3.54	4.05	3.68	3.22
		38 x 235	6.52	5.93	5.18	5.70	5.18	4.52	5.18	4.70	4.11
		38 x 286	7.94	7.21	6.30	6.94	6.30	5.50	6.30	5.73	5.00
	No. 3	38 x 89	2.43	2.20	1.93	2.12	1.93	1.68	1.93	1.75	1.53
		38 x 140	3.82	3.47	3.03	3.33	3.03	2.65	3.03	2.75	2.37
		38 x 184	5.02	4.56	3.77	4.38	3.97	3.24	3.98	3.54	2.89
		38 x 235	6.41	5.65	4.61	5.60	4.86	3.97	5.00	4.33	3.53
		38 x 286	7.57	6.56	5.35	6.51	5.64	4.60	5.80	5.02	4.10
	Construction	38 x 89	2.43	2.20	1.93	2.12	1.93	1.68	1.93	1.75	1.53
	Standard	38 x 89	2.33	2.12	1.85	2.04	1.85	1.59	1.85	1.68	1.41
Northern Species (includes any Canadian Species covered by the NLGA Standard Grading Rules)	Select Structural	38 x 89	2.28	2.07	1.81	1.99	1.81	1.58	1.81	1.65	1.44
		38 x 140	3.59	3.26	2.85	3.14	2.85	2.49	2.85	2.59	2.26
		38 x 184	4.72	4.29	3.75	4.12	3.75	3.27	3.75	3.40	2.97
		38 x 235	6.03	5.48	4.79	5.27	4.79	4.18	4.79	4.35	3.80
	No. 1 and No. 2	38 x 286	7.34	6.67	5.82	6.41	5.82	5.09	5.82	5.29	4.62
		38 x 89	2.23	2.03	1.77	1.95	1.77	1.55	1.77	1.61	1.41
		38 x 140	3.51	3.19	2.79	3.07	2.79	2.43	2.79	2.53	2.21
		38 x 184	4.61	4.19	3.66	4.03	3.66	3.20	3.66	3.33	2.91
		38 x 235	5.89	5.35	4.68	5.15	4.68	4.09	4.68	4.25	3.68
		38 x 286	7.17	6.52	5.58	6.26	5.69	4.80	5.69	5.17	4.27
	No. 3	38 x 89	2.18	1.98	1.73	1.90	1.73	1.50	1.73	1.57	1.33
		38 x 140	3.42	3.05	2.49	2.99	2.62	2.14	2.69	2.33	1.90
		38 x 184	4.28	3.71	3.03	3.68	3.19	2.60	3.28	2.84	2.32
		38 x 235	5.23	4.53	3.70	4.50	3.90	3.18	4.01	3.47	2.83
		38 x 286	6.07	5.26	4.29	5.22	4.52	3.69	4.65	4.03	3.29
	Construction	38 x 89	2.18	1.98	1.73	1.90	1.73	1.51	1.73	1.57	1.37
	Standard	38 x 89	2.09	1.81	1.48	1.80	1.56	1.27	1.60	1.38	1.13
Column 1	2	3	4	5	6	7	8	9	10	11	12

Table A-5

## Maximum Spans for Roof Joists - Specified Roof Snow Loads 2.5 and 3.0 kPa

Forming Part of Sentence 9.23.4.2.(1)

Commercial Designation	Grade	Joist Size, mm	Maximum Span, m					
			Specified Snow Load, kPa					
			2.5			3.0		
			Joist Spacing, mm			Joist Spacing, mm		
			300	400	600	300	400	600
Douglas Fir - Larch (includes Douglas Fir and Western Larch)	Select Structural	38 x 89	1.99	1.81	1.58	1.88	1.71	1.49
		38 x 140	3.14	2.85	2.49	2.95	2.68	2.34
		38 x 184	4.12	3.75	3.27	3.88	3.53	3.08
		38 x 235	5.27	4.79	4.18	4.96	4.50	3.93
		38 x 286	6.41	5.82	5.09	6.03	5.48	4.79
	No. 1 and No. 2	38 x 89	1.91	1.74	1.52	1.80	1.63	1.43
		38 x 140	3.01	2.73	2.39	2.83	2.57	2.25
		38 x 184	3.95	3.59	3.14	3.72	3.38	2.90
		38 x 235	5.05	4.59	3.84	4.75	4.32	3.55
		38 x 286	6.14	5.46	4.46	5.78	5.05	4.12
	No. 3	38 x 89	1.74	1.50	1.23	1.60	1.39	1.13
		38 x 140	2.48	2.15	1.75	2.29	1.98	1.62
		38 x 184	3.01	2.61	2.13	2.79	2.41	1.97
		38 x 235	3.69	3.19	2.61	3.41	2.95	2.41
		38 x 286	4.28	3.70	3.03	3.95	3.42	2.79
	Construction	38 x 89	1.85	1.68	1.47	1.74	1.58	1.38
	Standard	38 x 89	1.68	1.45	1.19	1.55	1.34	1.10
Hem - Fir (includes Western Hemlock and Amabilis Fir)	Select Structural	38 x 89	1.97	1.79	1.56	1.85	1.68	1.47
		38 x 140	3.10	2.81	2.46	2.91	2.65	2.31
		38 x 184	4.07	3.70	3.23	3.83	3.48	3.04
		38 x 235	5.20	4.72	4.12	4.89	4.44	3.88
		38 x 286	6.32	5.75	5.02	5.95	5.41	4.72
	No. 1 and No. 2	38 x 89	1.91	1.74	1.52	1.80	1.63	1.43
		38 x 140	3.01	2.73	2.39	2.83	2.57	2.25
		38 x 184	3.95	3.59	3.14	3.72	3.38	2.95
		38 x 235	5.05	4.59	4.01	4.75	4.32	3.72
		38 x 286	6.14	5.58	4.68	5.78	5.25	4.32
	No. 3	38 x 89	1.85	1.68	1.47	1.74	1.58	1.38
		38 x 140	2.91	2.65	2.16	2.74	2.45	2.00
		38 x 184	3.72	3.22	2.63	3.44	2.98	2.43
		38 x 235	4.55	3.94	3.22	4.20	3.64	2.97
		38 x 286	5.28	4.57	3.73	4.88	4.22	3.45
	Construction	38 x 89	1.85	1.68	1.47	1.74	1.58	1.38
	Standard	38 x 89	1.76	1.52	1.24	1.62	1.40	1.15
Column 1	2	3	4	5	6	7	8	9

Commercial Designation	Grade	Joist Size, mm	Maximum Span, m					
			Specified Snow Load, kPa					
			2.5			3.0		
			Joist Spacing, mm			Joist Spacing, mm		
			300	400	600	300	400	600
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38 x 89	1.88	1.71	1.49	1.77	1.61	1.41
		38 x 140	2.96	2.69	2.35	2.79	2.53	2.21
		38 x 184	3.89	3.54	3.09	3.66	3.33	2.91
		38 x 235	4.97	4.52	3.94	4.68	4.25	3.71
		38 x 286	6.05	5.50	4.80	5.69	5.17	4.52
	No. 1 and No. 2	38 x 89	1.82	1.65	1.44	1.71	1.56	1.36
		38 x 140	2.86	2.60	2.27	2.69	2.45	2.14
		38 x 184	3.76	3.42	2.99	3.54	3.22	2.81
		38 x 235	4.81	4.37	3.82	4.52	4.11	3.59
		38 x 286	5.85	5.31	4.64	5.50	5.00	4.37
	No. 3	38 x 89	1.79	1.62	1.42	1.68	1.53	1.34
		38 x 140	2.81	2.56	2.16	2.65	2.40	2.00
		38 x 184	3.70	3.22	2.63	3.44	2.98	2.43
		38 x 235	4.55	3.94	3.22	4.20	3.64	2.97
		38 x 286	5.28	4.57	3.73	4.88	4.22	3.45
	Construction	38 x 89	1.79	1.62	1.42	1.68	1.53	1.34
	Standard	38 x 89	1.72	1.56	1.29	1.62	1.46	1.19
Northern Species (includes any Canadian Species covered by the NLGA Standard Grading Rules)	Select Structural	38 x 89	1.68	1.53	1.34	1.58	1.44	1.26
		38 x 140	2.65	2.40	2.10	2.49	2.26	1.98
		38 x 184	3.48	3.16	2.76	3.27	2.97	2.60
		38 x 235	4.44	4.04	3.53	4.18	3.80	3.32
		38 x 286	5.41	4.91	4.29	5.09	4.62	4.04
	No. 1 and No. 2	38 x 89	1.64	1.49	1.31	1.55	1.41	1.23
		38 x 140	2.59	2.35	2.05	2.43	2.21	1.93
		38 x 184	3.40	3.09	2.70	3.20	2.91	2.53
		38 x 235	4.34	3.94	3.35	4.09	3.71	3.10
		38 x 286	5.28	4.76	3.89	4.97	4.40	3.59
	No. 3	38 x 89	1.60	1.46	1.21	1.51	1.37	1.12
		38 x 140	2.45	2.12	1.73	2.26	1.96	1.60
		38 x 184	2.98	2.58	2.11	2.76	2.39	1.95
		38 x 235	3.65	3.16	2.58	3.37	2.92	2.38
		38 x 286	4.23	3.66	2.99	3.91	3.39	2.76
	Construction	38 x 89	1.60	1.46	1.27	1.51	1.37	1.20
	Standard	38 x 89	1.46	1.26	1.03	1.34	1.16	0.95
Column 1	2	3	4	5	6	7	8	9



Table A-6

## Maximum Spans for Roof Rafters Specified Roof Snow Loads 1.0 to 2.0 kPa

Forming Part of Sentence 9.23.4.2.(1)

Commercial Designation	Grade	Rafter Size, mm	Maximum Span, m								
			Specified Snow Load, kPa								
			1.0			1.5			2.0		
			Rafter Spacing, mm			Rafter Spacing, mm			Rafter Spacing, mm		
			300	400	600	300	400	600	300	400	600
Douglas Fir - Larch (includes Douglas Fir and Western larch)	Select Structural	38 x 89	3.41	3.10	2.71	2.98	2.71	2.37	2.71	2.46	2.15
		38 x 140	5.37	4.88	4.26	4.69	4.26	3.72	4.26	3.87	3.38
		38 x 184	7.05	6.41	5.60	6.16	5.60	4.89	5.60	5.09	4.44
		38 x 235	9.01	8.18	7.15	7.87	7.15	6.24	7.15	6.49	5.62
		38 x 285	10.96	9.96	8.70	9.58	8.70	7.40	8.70	7.90	6.52
	No. 1 and No. 2	38 x 89	3.27	2.97	2.59	2.86	2.59	2.27	2.59	2.36	2.06
		38 x 140	5.14	4.67	3.95	4.49	4.08	3.34	4.08	3.60	2.94
		38 x 184	6.76	5.88	4.80	5.74	4.97	4.06	5.06	4.38	3.58
		38 x 235	8.30	7.19	5.87	7.02	6.08	4.96	6.19	5.36	4.38
		38 x 285	9.63	8.34	6.81	8.14	7.05	5.76	7.18	6.22	5.08
	No. 3	38 x 89	2.65	2.30	1.87	2.24	1.94	1.58	1.98	1.71	1.40
		38 x 140	3.78	3.28	2.68	3.20	2.77	2.26	2.82	2.44	1.99
		38 x 184	4.61	3.99	3.26	3.89	3.37	2.75	3.43	2.97	2.43
		38 x 235	5.63	4.88	3.98	4.76	4.12	3.37	4.20	3.64	2.97
		38 x 285	6.53	5.66	4.62	5.52	4.78	3.91	4.87	4.22	3.44
	Construction	38 x 89	3.17	2.88	2.42	2.77	2.50	2.04	2.51	2.21	1.80
	Standard	38 x 89	2.56	2.22	1.81	2.17	1.88	1.53	1.91	1.65	1.35
Hem - Fir (includes Western Hemlock and Amabilis Fir)	Select Structural	38 x 89	3.36	3.06	2.67	2.94	2.67	2.33	2.67	2.43	2.12
		38 x 140	5.29	4.81	4.20	4.62	4.20	3.67	4.20	3.82	3.33
		38 x 184	6.96	6.32	5.52	6.08	5.52	4.82	5.52	5.02	4.38
		38 x 235	8.88	8.07	7.05	7.76	7.05	6.16	7.05	6.41	5.54
		38 x 285	10.81	9.82	8.58	9.45	8.58	7.28	8.58	7.80	6.42
	No. 1 and No. 2	38 x 89	3.27	2.97	2.59	2.86	2.59	2.27	2.59	2.36	2.06
		38 x 140	5.14	4.67	4.08	4.49	4.08	3.50	4.08	3.71	3.08
		38 x 184	6.76	6.14	5.04	5.90	5.21	4.26	5.31	4.60	3.75
		38 x 235	8.63	7.54	6.16	7.36	6.37	5.20	6.49	5.62	4.59
		38 x 285	10.11	8.75	7.15	8.54	7.40	6.04	7.53	6.52	5.33
	No. 3	38 x 89	3.17	2.83	2.31	2.76	2.39	1.95	2.44	2.11	1.72
		38 x 140	4.67	4.04	3.30	3.95	3.42	2.79	3.48	3.01	2.46
		38 x 184	5.68	4.92	4.02	4.80	4.16	3.40	4.23	3.67	2.99
		38 x 235	6.95	6.02	4.91	5.87	5.08	4.15	5.18	4.48	3.66
		38 x 285	8.06	6.98	5.70	6.81	5.90	4.82	6.01	5.20	4.25
	Construction	38 x 89	3.17	2.88	2.51	2.77	2.51	2.14	2.51	2.28	1.89
	Standard	38 x 89	2.68	2.32	1.90	2.27	1.96	1.60	2.00	1.73	1.41
Column 1	2	3	4	5	6	7	8	9	10	11	12

Commercial Designation	Grade	Rafter Size, mm	Maximum Span, m								
			Specified Snow Load, kPa								
			1.0			1.5			2.0		
			Rafter Spacing, mm			Rafter Spacing, mm			Rafter Spacing, mm		
			300	400	600	300	400	600	300	400	600
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	38 x 89	3.22	2.92	2.55	2.81	2.55	2.23	2.55	2.32	2.03
		38 x 140	5.06	4.60	4.02	4.42	4.02	3.51	4.02	3.65	3.19
		38 x 184	6.65	6.05	5.28	5.81	5.28	4.61	5.28	4.80	4.19
		38 x 235	8.50	7.72	6.74	7.42	6.74	5.89	6.74	6.13	5.35
		38 x 285	10.34	9.40	8.21	9.03	8.21	7.17	8.21	7.46	6.52
	No. 1 and No. 2	38 x 89	3.11	2.83	2.47	2.72	2.47	2.16	2.47	2.24	1.96
		38 x 140	4.90	4.45	3.89	4.28	3.89	3.40	3.89	3.53	3.08
		38 x 184	6.44	5.85	5.11	5.62	5.11	4.41	5.11	4.64	3.89
		38 x 235	8.22	7.47	6.38	7.18	6.52	5.39	6.52	5.82	4.75
		38 x 285	10.00	9.06	7.40	8.74	7.66	6.25	7.80	6.76	5.52
	No. 3	38 x 89	3.06	2.78	2.31	2.67	2.39	1.95	2.43	2.11	1.72
		38 x 140	4.67	4.04	3.30	3.95	3.42	2.79	3.48	3.01	2.46
		38 x 184	5.68	4.92	4.02	4.80	4.16	3.40	4.23	3.67	2.99
		38 x 235	6.95	6.02	4.91	5.87	5.08	4.15	5.18	4.48	3.66
		38 x 285	8.06	6.98	5.70	6.81	5.90	4.82	6.01	5.20	4.25
	Construction	38 x 89	3.06	2.78	2.43	2.67	2.43	2.12	2.43	2.20	1.93
	Standard	38 x 89	2.78	2.41	1.97	2.35	2.04	1.66	2.07	1.79	1.47
Northern Species (includes any Canadian species covered by the NLGA Standard Grading Rules)	Select Structural	38 x 89	2.88	2.61	2.28	2.51	2.28	1.99	2.28	2.07	1.81
		38 x 140	4.53	4.11	3.59	3.95	3.59	3.14	3.59	3.26	2.85
		38 x 184	5.95	5.40	4.72	5.20	4.72	4.12	4.72	4.29	3.68
		38 x 235	7.60	6.90	6.03	6.64	6.03	5.11	6.03	5.48	4.51
		38 x 285	9.25	8.40	7.01	8.08	7.26	5.93	7.34	6.40	5.23
	No. 1 and No. 2	38 x 89	2.81	2.55	2.23	2.46	2.23	1.95	2.23	2.03	1.77
		38 x 140	4.42	4.02	3.44	3.86	3.51	2.91	3.51	3.14	2.56
		38 x 184	5.81	5.13	4.19	5.00	4.33	3.54	4.41	3.82	3.12
		38 x 235	7.24	6.27	5.12	6.12	5.30	4.33	5.40	4.67	3.82
		38 x 285	8.40	7.27	5.94	7.10	6.15	5.02	6.26	5.42	4.43
	No. 3	38 x 89	2.62	2.27	1.85	2.22	1.92	1.57	1.95	1.69	1.38
		38 x 140	3.74	3.24	2.65	3.16	2.74	2.24	2.79	2.42	1.97
		38 x 184	4.56	3.94	3.22	3.85	3.33	2.72	3.40	2.94	2.40
		38 x 235	5.57	4.82	3.94	4.71	4.08	3.33	4.15	3.60	2.94
		38 x 285	6.46	5.60	4.57	5.46	4.73	3.86	4.82	4.17	3.41
	Construction	38 x 89	2.74	2.49	2.11	2.40	2.18	1.90	2.18	1.93	1.57
	Standard	38 x 89	2.22	1.93	1.57	1.88	1.63	1.33	1.66	1.44	1.17
Column 1	2	3	4	5	6	7	8	9	10	11	12

Table A-7

## Maximum Spans for Roof Rafters – Specified Roof Snow Loads 2.5 and 3.0 kPa

Forming Part of Sentence 9.23.4.2.(1)

Commercial Designation	Grade	Rafter Size, mm	Maximum Span, m					
			Specified Snow Load, kPa					
			2.5			3.0		
			Rafter Spacing, mm			Rafter Spacing, mm		
			300	400	600	300	400	600
Douglas Fir - Larch (includes Douglas Fir and Western larch)	Select Structural	38 x 89	2.51	2.28	1.99	2.37	2.15	1.88
		38 x 140	3.95	3.59	3.14	3.72	3.38	2.95
		38 x 184	5.20	4.72	4.12	4.89	4.44	3.83
		38 x 235	6.64	6.03	5.08	6.24	5.67	4.68
		38 x 285	8.08	7.23	5.90	7.60	6.65	5.43
	No. 1 and No. 2	38 x 89	2.41	2.19	1.86	2.27	2.06	1.71
		38 x 140	3.76	3.26	2.66	3.46	3.00	2.45
		38 x 184	4.58	3.96	3.24	4.21	3.65	2.98
		38 x 235	5.60	4.85	3.96	5.15	4.46	3.64
		38 x 285	6.50	5.63	4.59	5.98	5.17	4.23
	No. 3	38 x 89	1.79	1.55	1.26	1.64	1.42	1.16
		38 x 140	2.55	2.21	1.80	2.35	2.03	1.66
		38 x 184	3.10	2.69	2.20	2.86	2.47	2.02
		38 x 235	3.80	3.29	2.68	3.49	3.02	2.47
		38 x 285	4.41	3.82	3.12	4.05	3.51	2.87
	Construction	38 x 89	2.30	2.00	1.63	2.12	1.84	1.50
	Standard	38 x 89	1.73	1.50	1.22	1.59	1.38	1.12
Hem - Fir (includes Western Hemlock and Amabilis Fir)	Select Structural	38 x 89	2.48	2.25	1.97	2.33	2.12	1.85
		38 x 140	3.90	3.54	3.10	3.67	3.33	2.91
		38 x 184	5.13	4.66	4.07	4.82	4.38	3.77
		38 x 235	6.55	5.95	5.01	6.16	5.60	4.61
		38 x 285	7.97	7.12	5.81	7.50	6.55	5.34
	No. 1 and No. 2	38 x 89	2.41	2.19	1.91	2.27	2.06	1.80
		38 x 140	3.79	3.42	2.79	3.57	3.14	2.57
		38 x 184	4.80	4.16	3.40	4.42	3.83	3.12
		38 x 235	5.87	5.08	4.15	5.40	4.68	3.82
		38 x 285	6.81	5.90	4.82	6.27	5.43	4.43
	No. 3	38 x 89	2.21	1.91	1.56	2.03	1.76	1.43
		38 x 140	3.15	2.73	2.23	2.90	2.51	2.05
		38 x 184	3.83	3.32	2.71	3.52	3.05	2.49
		38 x 235	4.68	4.06	3.31	4.31	3.73	3.05
		38 x 285	5.53	4.71	3.84	5.00	4.33	3.54
	Commercial	38 x 89	2.33	2.09	1.71	2.20	1.93	1.57
	Standard	38 x 89	1.81	1.57	1.28	1.66	1.44	1.18
Column 1	2	3	4	5	6	7	8	9



Commercial Designation	Grade	Rafter Size, mm	Maximum Span, m					
			Specified Snow Load, kPa					
			2.5			3.0		
			Rafter Spacing, mm			Rafter Spacing, mm		
			300	400	600	300	400	600
Northern Species (includes any Canadian species covered by the NLGA Standard Grading Rules)	Select Structural	38 x 89	2.37	2.15	1.88	2.23	2.03	1.77
		38 x 140	3.73	3.39	2.96	3.51	3.19	2.79
		38 x 184	4.90	4.45	3.89	4.61	4.19	3.66
		38 x 235	6.26	5.69	4.97	5.89	5.35	4.68
		38 x 285	7.62	6.92	5.90	7.17	6.52	5.43
	No. 1 and No. 2	38 x 89	2.29	2.08	1.82	2.16	1.96	1.71
		38 x 140	3.61	3.28	2.86	3.40	3.08	2.66
		38 x 184	4.74	4.31	3.52	4.46	3.96	3.23
		38 x 235	6.06	5.27	4.30	5.59	4.84	3.96
		38 x 285	7.06	6.11	4.99	6.49	5.62	4.59
	No. 3	38 x 89	2.21	1.91	1.56	2.03	1.76	1.43
		38 x 140	3.15	2.73	2.23	2.90	2.51	2.05
		38 x 184	3.83	3.32	2.71	3.52	3.05	2.49
		38 x 235	4.68	4.06	3.31	4.31	3.73	3.05
		38 x 285	5.43	4.71	3.84	5.00	4.33	3.54
	Construction	38 x 89	2.25	2.05	1.77	2.12	1.93	1.63
	Standard	38 x 89	1.87	1.62	1.33	1.72	1.49	1.22
Northern Species (includes any Canadian species covered by the NLGA Standard Grading Rules)	Select Structural	38 x 89	2.12	1.93	1.68	1.99	1.81	1.58
		38 x 140	3.33	3.03	2.65	3.14	2.85	2.49
		38 x 184	4.38	3.98	3.33	4.12	3.75	3.07
		38 x 235	5.60	4.99	4.08	5.27	4.59	3.75
		38 x 285	6.69	5.79	4.73	6.15	5.33	4.35
	No. 1 and No. 2	38 x 89	2.07	1.88	1.62	1.95	1.77	1.49
		38 x 140	3.26	2.84	2.32	3.02	2.61	2.13
		38 x 184	3.99	3.46	2.82	3.67	3.18	2.60
		38 x 235	4.88	4.23	3.45	4.49	3.89	3.17
		38 x 285	5.66	4.90	4.00	5.21	4.51	3.68
	No. 3	38 x 89	1.77	1.53	1.25	1.63	1.41	1.15
		38 x 140	2.52	2.19	1.78	2.32	2.01	1.64
		38 x 184	3.07	2.66	2.17	2.82	2.45	2.00
		38 x 235	3.76	3.25	2.66	3.45	2.99	2.44
		38 x 285	4.36	3.77	3.08	4.01	3.47	2.83
	Construction	38 x 89	2.01	1.74	1.42	1.85	1.60	1.31
	Standard	38 x 89	1.50	1.30	1.06	1.38	1.19	0.98
Column 1	2	3	4	5	6	7	8	9

Table A-8

Maximum Spans for Built-up Floor Beams Supporting not more than One Floor<sup>(1)</sup>

Forming Part of Sentence 9.23.4.2.(3)

Commercial Designation	Grade	Supported Length, mm <sup>(4)(5)</sup>	Maximum Span, m <sup>(2)(3)</sup>								
			Size of Built-up Beam, mm								
			3 – 38 x 184	4 – 38 x 184	5 – 38 x 184	3 – 38 x 235	4 – 38 x 235	5 – 38 x 235	3 – 38 x 286	4 – 38 x 286	5 – 38 x 286
Douglas Fir - Larch (includes Douglas Fir and Western larch)	Select Structural	2.4	3.84	4.43	4.96	4.70	5.42	6.06	5.45	6.29	7.03
		3.0	3.43	3.97	4.43	4.20	4.85	5.42	4.87	5.63	6.29
		3.6	3.14	3.62	4.05	3.83	4.43	4.95	4.45	5.14	5.74
		4.2	2.90	3.35	3.75	3.55	4.10	4.58	4.12	4.76	5.32
		4.8	2.72	3.14	3.51	3.32	3.83	4.29	3.85	4.45	4.97
		5.4	2.56	2.96	3.31	3.13	3.61	4.04	3.63	4.19	4.69
		6.0	2.43	2.80	3.14	2.97	3.43	3.83	3.34	3.98	4.45
	No. 1 and No. 2	2.4	2.99	3.45	3.86	3.66	4.22	4.72	4.24	4.90	5.48
		3.0	2.67	3.09	3.45	3.27	3.78	4.22	3.79	4.38	4.90
		3.6	2.44	2.82	3.15	2.98	3.45	3.85	3.46	4.00	4.47
		4.2	2.26	2.61	2.92	2.76	3.19	3.57	3.21	3.70	4.14
		4.8	2.11	2.44	2.73	2.59	2.98	3.34	3.00	3.46	3.87
		5.4	1.99	2.30	2.57	2.44	2.81	3.15	2.83	3.27	3.65
Hem - Fir (includes Western Hemlock and Amabilis Fir)	Select Structural	2.4	3.78	4.37	4.88	4.62	5.34	5.97	5.37	6.20	6.93
		3.0	3.38	3.91	4.37	4.14	4.78	5.34	4.80	5.54	6.20
		3.6	3.09	3.57	3.99	3.78	4.36	4.87	4.35	5.06	5.66
		4.2	2.86	3.30	3.69	3.39	4.04	4.51	3.81	4.68	5.24
		4.8	2.55	3.09	3.45	3.03	3.78	4.22	3.40	4.35	4.90
		5.4	2.31	2.91	3.25	2.74	3.50	3.98	3.09	3.93	4.62
		6.0	2.12	2.70	3.09	2.52	3.20	3.78	2.84	3.59	4.35
	No. 1 and No. 2	2.4	3.14	3.62	4.05	3.83	4.43	4.95	4.45	5.14	5.74
		3.0	2.80	3.24	3.62	3.43	3.96	4.43	3.98	4.60	5.14
		3.6	2.56	2.96	3.31	3.13	3.61	4.04	3.63	4.19	4.69
		4.2	2.37	2.74	3.06	2.90	3.35	3.74	3.36	3.88	4.34
		4.8	2.22	2.56	2.86	2.71	3.13	3.50	3.15	3.63	4.06
		5.4	2.09	2.41	2.70	2.56	2.95	3.30	2.97	3.42	3.83
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	2.4	3.84	4.43	4.96	4.70	5.42	6.06	5.45	6.29	7.03
		3.0	3.43	3.97	4.43	4.20	4.85	5.42	4.87	5.63	6.29
		3.6	3.14	3.62	4.05	3.83	4.43	4.95	4.45	5.14	5.74
		4.2	2.90	3.35	3.75	3.55	4.10	4.58	4.12	4.76	5.32
		4.8	2.72	3.14	3.51	3.31	3.83	4.29	3.72	4.45	4.97
		5.4	2.53	2.96	3.31	3.00	3.61	4.04	3.37	4.19	4.69
		6.0	2.31	2.80	3.14	2.74	3.43	3.83	3.09	3.93	4.45
	No. 1 and No. 2	2.4	3.25	3.75	4.19	3.97	4.59	5.13	4.61	5.32	5.95
		3.0	2.90	3.35	3.75	3.55	4.10	4.59	4.12	4.76	5.32
		3.6	2.65	3.06	3.42	3.24	3.74	4.19	3.76	4.34	4.86
		4.2	2.45	2.83	3.17	3.00	3.47	3.88	3.48	4.02	4.50
		4.8	2.30	2.65	2.96	2.81	3.24	3.63	3.26	3.76	4.21
		5.4	2.17	2.50	2.80	2.65	3.06	3.42	3.07	3.55	3.97
		6.0	2.05	2.37	2.65	2.51	2.90	3.24	2.91	3.37	3.76
Column 1	2	3	4	5	6	7	8	9	10	11	12

Commercial Designation	Grade	Supported Length, mm <sup>(4)(5)</sup>	Maximum Span, m <sup>(2)(3)</sup>								
			Size of Built-up Beam, mm								
			3 – 38 x 184	4 – 38 x 184	5 – 38 x 184	3 – 38 x 235	4 – 38 x 235	5 – 38 x 235	3 – 38 x 286	4 – 38 x 286	5 – 38 x 286
Northern Species (includes any Canadian species covered by the NLGA Standard Grading Rules)	Select Structural	2.4	3.08	3.55	3.97	3.76	4.35	4.86	4.37	5.04	5.64
		3.0	2.75	3.18	3.55	3.37	3.89	4.35	3.91	4.51	5.04
		3.6	2.51	2.90	3.24	3.07	3.55	3.97	3.57	4.12	4.60
		4.2	2.33	2.69	3.00	2.85	3.29	3.67	3.30	3.81	4.26
		4.8	2.18	2.51	2.81	2.66	3.07	3.44	3.09	3.57	3.99
		5.4	2.05	2.37	2.65	2.51	2.90	3.24	2.91	3.36	3.76
		6.0	1.95	2.25	2.51	2.38	2.75	3.07	2.76	3.19	3.57
	No. 1 and No. 2	2.4	2.61	3.01	3.36	3.19	3.68	4.11	3.70	4.27	4.77
		3.0	2.33	2.69	3.01	2.85	3.29	3.68	3.31	3.82	4.27
		3.6	2.13	2.46	2.75	2.60	3.00	3.36	3.02	3.49	3.90
		4.2	1.97	2.27	2.54	2.41	2.78	3.11	2.80	3.23	3.61
		4.8	1.84	2.13	2.38	2.25	2.60	2.91	2.61	3.02	3.38
		5.4	1.74	2.01	2.24	2.12	2.45	2.74	2.47	2.85	3.18
		6.0	1.65	1.90	2.13	2.02	2.33	2.60	2.34	2.70	3.02
Column 1	2	3	4	5	6	7	8	9	10	11	12

**Notes to Table A-8:**

- (1) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed *live load* on the floors does not exceed that specified for residential areas as described in Table 4.1.6.3.
- (2) Spans are clear spans between supports. For total span, add two bearing lengths.
- (3) Provide minimum 89 mm of bearing.
- (4) Supported length means half the sum of the joists spans on both sides of the beam.
- (5) Straight line interpolation may be used for other supported lengths.

**Table A-9****Maximum Spans for Built-up Floor Beams Supporting not more than Two Floors<sup>(1)</sup>**

Forming Part of Sentence 9.23.4.2.(3)

Commercial Designation	Grade	Supported Length, mm <sup>(4)(5)</sup>	Maximum Span, m <sup>(2)(3)</sup>								
			Size of Built-up Beam, mm								
			3 – 38 x 184	4 – 38 x 184	5 – 38 x 184	3 – 38 x 235	4 – 38 x 235	5 – 38 x 235	3 – 38 x 286	4 – 38 x 286	5 – 38 x 286
Douglas Fir - Larch (includes Douglas Fir and Western larch)	Select Structural	2.4	2.91	3.36	3.76	3.56	4.11	4.60	4.13	4.77	5.34
		3.0	2.61	3.01	3.36	3.19	3.68	4.11	3.70	4.27	4.77
		3.6	2.38	2.75	3.07	2.87	3.36	3.76	3.23	3.90	4.36
		4.2	2.13	2.54	2.84	2.53	3.11	3.48	2.85	3.61	4.04
		4.8	1.91	2.38	2.66	2.27	2.87	3.25	2.56	3.23	3.77
		5.4	1.74	2.19	2.51	2.07	2.60	3.07	2.34	2.93	3.52
		6.0	1.60	2.01	2.38	1.91	2.39	2.87	2.17	2.70	3.23
	No. 1 and No. 2	2.4	2.27	2.62	2.93	2.77	3.20	3.58	3.22	3.72	4.16
		3.0	2.03	2.34	2.62	2.48	2.86	3.20	2.88	3.32	3.72
		3.6	1.85	2.14	2.39	2.26	2.62	2.92	2.63	3.03	3.39
		4.2	1.71	1.98	2.21	2.10	2.42	2.71	2.43	2.81	3.14
		4.8	1.60	1.85	2.07	1.96	2.26	2.53	2.28	2.63	2.94
		5.4	1.51	1.75	1.95	1.85	2.14	2.39	2.15	2.48	2.77
		6.0	1.43	1.66	1.85	1.75	2.03	2.26	2.04	2.35	2.63
Column 1	2	3	4	5	6	7	8	9	10	11	12



Commercial Designation	Grade	Supported Length, mm <sup>(4)(5)</sup>	Maximum Span, m <sup>(2) (3)</sup>								
			Size of Built-up Beam, mm								
			3 – 38 x 184	4 – 38 x 184	5 – 38 x 184	3 – 38 x 235	4 – 38 x 235	5 – 38 x 235	3 – 38 x 286	4 – 38 x 286	5 – 38 x 286
Hem - Fir (includes Western Hemlock and Amabilis Fir)	Select Structural	2.4	2.87	3.31	3.70	3.42	4.05	4.53	3.83	4.70	5.26
		3.0	2.38	2.96	3.31	2.83	3.61	4.05	3.18	4.05	4.70
		3.6	2.05	2.61	3.02	2.43	3.09	3.70	2.75	3.47	4.19
		4.2	1.81	2.29	2.77	2.15	2.72	3.28	2.44	3.06	3.68
		4.8	1.63	2.05	2.47	1.94	2.43	2.93	2.20	2.75	3.29
		5.4	1.49	1.86	2.23	1.78	2.22	2.65	2.02	2.50	2.99
		6.0	1.37	1.71	2.05	1.65	2.04	2.43	1.88	2.31	2.75
	No. 1 and No. 2	2.4	2.38	2.75	3.07	2.91	3.36	3.76	3.38	3.90	4.36
		3.0	2.13	2.46	2.75	2.60	3.00	3.36	3.02	3.49	3.90
		3.6	1.94	2.24	2.51	2.38	2.74	3.07	2.75	3.18	3.56
		4.2	1.80	2.08	2.32	2.15	2.54	2.84	2.44	2.95	3.29
		4.8	1.63	1.94	2.17	1.94	2.38	2.66	2.20	2.75	3.08
		5.4	1.49	1.83	2.05	1.78	2.22	2.50	2.02	2.50	2.91
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	2.4	2.91	3.36	3.76	3.56	4.11	4.60	4.13	4.77	5.34
		3.0	2.61	3.01	3.36	3.09	3.68	4.11	3.47	4.27	4.77
		3.6	2.23	2.75	3.07	2.65	3.36	3.76	2.99	3.79	4.36
		4.2	1.97	2.50	2.84	2.34	2.96	3.48	2.64	3.33	4.02
		4.8	1.77	2.23	2.66	2.11	2.65	3.20	2.38	2.99	3.59
		5.4	1.61	2.03	2.44	1.93	2.41	2.90	2.18	2.72	3.26
		6.0	1.49	1.86	2.23	1.78	2.22	2.65	2.02	2.50	2.99
	No. 1 and No. 2	2.4	2.46	2.85	3.18	3.01	3.48	3.89	3.50	4.04	4.51
		3.0	2.20	2.55	2.85	2.70	3.11	3.48	3.13	3.61	4.04
		3.6	2.01	2.32	2.60	2.46	2.84	3.18	2.85	3.30	3.69
		4.2	1.86	2.15	2.40	2.28	2.63	2.94	2.64	3.05	3.41
		4.8	1.74	2.01	2.25	2.11	2.46	2.75	2.38	2.85	3.19
		5.4	1.61	1.90	2.12	1.93	2.32	2.59	2.18	2.69	3.01
Northern Species (includes any Canadian species covered by the NLGA Standard Grading Rules)	Select Structural	2.4	2.34	2.70	3.02	2.86	3.30	3.69	3.31	3.83	4.28
		3.0	2.09	2.41	2.70	2.55	2.95	3.30	2.96	3.42	3.83
		3.6	1.91	2.20	2.46	2.33	2.69	3.01	2.71	3.12	3.49
		4.2	1.77	2.04	2.28	2.15	2.49	2.79	2.44	2.89	3.23
		4.8	1.63	1.91	2.13	1.94	2.33	2.61	2.20	2.71	3.03
		5.4	1.49	1.80	2.01	1.78	2.20	2.46	2.02	2.50	2.85
		6.0	1.37	1.71	1.91	1.65	2.04	2.33	1.88	2.31	2.71
	No. 1 and No. 2	2.4	1.98	2.28	2.55	2.42	2.79	3.12	2.81	3.24	3.62
		3.0	1.77	2.04	2.28	2.16	2.50	2.79	2.51	2.90	3.24
		3.6	1.61	1.86	2.08	1.97	2.28	2.55	2.29	2.65	2.96
		4.2	1.49	1.73	1.93	1.83	2.11	2.36	2.12	2.45	2.74
		4.8	1.40	1.61	1.81	1.71	1.97	2.21	1.98	2.29	2.56
		5.4	1.32	1.52	1.70	1.61	1.86	2.08	1.87	2.16	2.42
		6.0	1.25	1.44	1.61	1.53	1.77	1.97	1.77	2.05	2.29
Column 1	2	3	4	5	6	7	8	9	10	11	12

**Notes to Table A-9:**

- (1) Spans apply only where the floors serve residential areas as described in Table 4.1.6.A., or the uniformly distributed *live load* on the floors does not exceed that specified for residential areas as described in Table 4.1.6.A.
- (2) Spans are clear spans between supports. For total span, add two bearing lengths.
- (3) Provide minimum 89 mm of bearing.
- (4) Supported length means half the sum of the joists spans on both sides of the beam.
- (5) Straight line interpolation may be used for other supported lengths.

Table A-10

Maximum Spans for Built-up Floor Beams Supporting not more than Three Floors<sup>(1)</sup>

Forming Part of Sentence 9.23.4.2.(3)

Commercial Designation	Grade	Supported Length, mm <sup>(4)(5)</sup>	Maximum Span, m <sup>(2)(3)</sup>								
			Size of Built-up Beam, mm								
			3- 38 x 184	4- 38 x 184	5- 38 x 184	3- 38 x 235	4- 38 x 235	5- 38 x 235	3- 38 x 286	4- 38 x 286	5- 38 x 286
Douglas Fir - Larch (includes Douglas Fir and Western larch)	Select Structural	2.4	2.44	2.82	3.15	2.99	3.45	3.85	3.37	4.00	4.47
		3.0	2.10	2.52	2.82	2.49	3.08	3.45	2.81	3.56	4.00
		3.6	1.81	2.29	2.57	2.16	2.72	3.15	2.44	3.06	3.65
		4.2	1.60	2.01	2.38	1.92	2.40	2.88	2.17	2.70	3.24
		4.8	1.45	1.81	2.17	1.73	2.16	2.58	1.97	2.44	2.90
		5.4	1.33	1.65	1.97	1.59	1.97	2.34	1.82	2.23	2.64
		6.0	1.23	1.52	1.81	1.48	1.82	2.16	1.69	2.06	2.44
	No. 1 and No. 2	2.4	1.90	2.19	2.45	2.32	2.68	3.00	2.70	3.11	3.48
		3.0	1.70	1.96	2.19	2.08	2.40	2.68	2.41	2.79	3.11
		3.6	1.55	1.79	2.00	1.90	2.19	2.45	2.20	2.54	2.84
		4.2	1.44	1.66	1.86	1.76	2.03	2.27	2.04	2.35	2.63
		4.8	1.34	1.55	1.74	1.64	1.90	2.12	1.91	2.20	2.46
		5.4	1.27	1.46	1.64	1.55	1.79	2.00	1.80	2.08	2.32
		6.0	1.20	1.39	1.55	1.47	1.70	1.90	1.69	1.97	2.20
Hem - Fir (includes Western Hemlock and Amabilis Fir)	Select Structural	2.4	2.14	2.72	3.10	2.54	3.23	3.80	2.86	3.62	4.39
		3.0	1.78	2.25	2.72	2.13	2.68	3.23	2.40	3.01	3.62
		3.6	1.55	1.94	2.33	1.85	2.31	2.77	2.10	2.61	3.12
		4.2	1.38	1.71	2.05	1.65	2.05	2.44	1.88	2.32	2.75
		4.8	1.25	1.55	1.84	1.50	1.85	2.19	1.72	2.10	2.48
		5.4	1.15	1.42	1.68	1.39	1.70	2.00	1.59	1.93	2.27
		6.0	1.07	1.31	1.55	1.30	1.57	1.85	1.49	1.79	2.10
	No. 1 and No. 2	2.4	1.99	2.30	2.57	2.44	2.81	3.15	2.83	3.27	3.65
		3.0	1.78	2.06	2.30	2.13	2.52	2.81	2.40	2.92	3.27
		3.6	1.55	1.88	2.10	1.85	2.30	2.57	2.10	2.61	2.98
		4.2	1.38	1.71	1.95	1.65	2.05	2.38	1.88	2.32	2.75
		4.8	1.25	1.55	1.82	1.50	1.85	2.19	1.72	2.10	2.48
		5.4	1.15	1.42	1.68	1.39	1.70	2.00	1.59	1.93	2.27
		6.0	1.07	1.31	1.55	1.30	1.57	1.85	1.49	1.79	2.10
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	Select Structural	2.4	2.33	2.82	3.15	2.77	3.45	3.85	3.12	3.96	4.47
		3.0	1.94	2.46	2.82	2.31	2.92	3.45	2.61	3.29	3.96
		3.6	1.68	2.11	2.55	2.00	2.51	3.02	2.27	2.83	3.40
		4.2	1.49	1.86	2.24	1.78	2.22	2.66	2.03	2.51	2.99
		4.8	1.35	1.68	2.00	1.62	2.00	2.39	1.84	2.27	2.69
		5.4	1.24	1.53	1.82	1.49	1.83	2.17	1.70	2.08	2.46
		6.0	1.15	1.42	1.68	1.39	1.70	2.00	1.59	1.93	2.27
	No. 1 and No. 2	2.4	2.06	2.38	2.67	2.52	2.92	3.26	2.93	3.38	3.78
		3.0	1.85	2.13	2.38	2.26	2.61	2.92	2.61	3.03	3.38
		3.6	1.68	1.95	2.18	2.00	2.38	2.66	2.27	2.76	3.09
		4.2	1.49	1.80	2.02	1.78	2.20	2.46	2.03	2.51	2.86
		4.8	1.35	1.68	1.88	1.62	2.00	2.30	1.84	2.27	2.67
		5.4	1.24	1.53	1.78	1.49	1.83	2.17	1.70	2.08	2.46
		6.0	1.15	1.42	1.68	1.39	1.70	2.00	1.59	1.93	2.27
Column 1	2	3	4	5	6	7	8	9	10	11	12

Commercial Designation	Grade	Supported Length, mm <sup>(4)(5)</sup>	Maximum Span, m <sup>(2)(3)</sup>								
			Size of Built-up Beam, mm								
			3- 38 x 184	4- 38 x 184	5- 38 x 184	3- 38 x 235	4- 38 x 235	5- 38 x 235	3- 38 x 286	4- 38 x 286	5- 38 x 286
Northern Species (includes any Canadian species covered by the NLGA Standard Grading Rules)	Select Structural	2.4	1.96	2.26	2.53	2.39	2.76	3.09	2.78	3.21	3.58
		3.0	1.75	2.02	2.26	3.13	2.47	2.76	2.40	2.87	3.21
		3.6	1.55	1.85	2.06	1.85	2.26	2.52	2.10	2.61	2.93
		4.2	1.38	1.71	1.91	1.65	2.05	2.34	1.88	2.32	2.71
		4.8	1.25	1.55	1.79	1.50	1.85	2.18	1.72	2.10	2.48
		5.4	1.15	1.42	1.68	1.39	1.70	2.00	1.59	1.93	2.27
		6.0	1.07	1.31	1.55	1.30	1.57	1.85	1.49	1.79	2.10
	No. 1 and No.2	2.4	1.66	1.91	2.14	2.03	2.34	2.62	2.35	2.72	3.04
		3.0	1.48	1.71	1.91	1.81	2.09	2.34	2.10	2.43	2.72
		3.6	1.35	1.56	1.75	1.65	1.91	2.14	1.92	2.22	2.48
		4.2	1.25	1.45	1.62	1.53	1.77	1.98	1.78	2.05	2.29
		4.8	1.17	1.35	1.51	1.43	1.65	1.85	1.66	1.92	2.15
		5.4	1.10	1.28	1.43	1.35	1.56	1.74	1.57	1.81	2.02
		6.0	1.05	1.21	1.35	1.28	1.48	1.65	1.49	1.72	1.92
Column 1	2	3	4	5	6	7	8	9	10	11	12

**Notes to Table A-10:**

- (1) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed *live load* on the floors does not exceed that specified for residential areas as described in Table 4.1.6.3.
- (2) Spans are clear spans between supports. For total span, add two bearing lengths.
- (3) Provide minimum 89 mm of bearing.
- (4) Supported length means half the sum of the joists spans on both sides of the beam.
- (5) Straight line interpolation may be used for other supported lengths.

**Table A-11****Maximum Spans for Glue-Laminated Floor Beams - 20f-E Grade<sup>(1)</sup>**

Forming Part of Sentence 9.23.4.2.(3)

Number of Storeys Supported	Beam Width, mm	Supported Length, m <sup>(6)(7)</sup>	Maximum Span, m <sup>(2) (3) (4) (5)</sup>						
			Beam Depth, mm						
			228	266	304	342	380	418	456
1	80	2.4	4.32	5.04	5.76	6.48	7.20	7.92	8.64
		3.0	3.87	4.51	5.15	5.80	6.44	7.09	7.73
		3.6	3.53	4.12	4.70	5.29	5.88	6.47	7.06
		4.2	3.27	3.81	4.36	4.90	5.44	5.99	6.53
		4.8	3.06	3.57	4.07	4.58	5.09	5.60	6.11
		5.4	2.88	3.36	3.84	4.32	4.80	5.28	5.76
		6.0	2.73	3.19	3.64	4.10	4.56	5.01	5.47
	130	2.4	5.51	6.43	7.35	8.26	9.18	10.10	11.02
		3.0	4.93	5.75	6.57	7.39	8.21	9.03	9.86
		3.6	4.50	5.25	6.00	6.75	7.50	8.25	9.00
		4.2	4.16	4.86	5.55	6.25	6.94	7.64	8.33
		4.8	3.90	4.54	5.19	5.84	6.49	7.14	7.79
		5.4	3.67	4.28	4.90	5.51	6.12	6.73	7.35
		6.0	3.48	4.07	4.65	5.23	5.81	6.39	6.97
Column 1	2	3	4	5	6	7	8	9	10



Number of Storeys Supported	Beam Width, mm	Supported Length, m <sup>(6)(7)</sup>	Maximum Span, m <sup>(2) (3) (4) (5)</sup>						
			Beam Depth, mm						
			228	266	304	342	380	418	456
2	80	2.4	3.28	3.83	4.37	4.92	5.47	6.01	6.56
		3.0	2.93	3.42	3.91	4.40	4.89	5.38	5.87
		3.6	2.68	3.12	3.57	4.02	4.46	4.91	5.36
		4.2	2.48	2.89	3.31	3.72	4.13	4.54	4.96
		4.8	2.32	2.71	3.09	3.48	3.86	4.25	4.64
		5.4	2.19	2.55	2.91	3.28	3.64	4.01	4.37
		6.0	2.07	2.42	2.77	3.11	3.46	3.80	4.15
	130	2.4	4.18	4.88	5.57	6.27	6.97	7.66	8.36
		3.0	3.74	4.36	4.99	5.61	6.23	6.85	7.48
		3.6	3.41	3.98	4.55	5.12	5.69	6.26	6.83
		4.2	3.16	3.69	4.21	4.74	5.27	5.79	6.32
		4.8	2.96	3.45	3.94	4.43	4.93	5.42	5.91
		5.4	2.79	3.25	3.72	4.18	4.64	5.11	5.57
		6.0	2.64	3.08	3.53	3.97	4.41	4.85	5.29
3	80	2.4	2.75	3.21	3.66	4.12	4.58	5.04	5.50
		3.0	2.46	2.87	3.28	3.69	4.10	4.51	4.92
		3.6	2.24	2.62	2.99	3.37	3.74	4.11	4.49
		4.2	2.08	2.42	2.77	3.12	3.46	3.81	4.15
		4.8	1.94	2.27	2.59	2.91	3.24	3.56	3.89
		5.4	1.83	2.14	2.44	2.75	3.05	3.36	3.66
		6.0	1.74	2.03	2.32	2.61	2.90	3.19	3.48
	130	2.4	3.50	4.09	4.67	5.25	5.84	6.42	7.01
		3.0	3.13	3.66	4.18	4.70	5.22	5.74	6.27
		3.6	2.86	3.34	3.81	4.29	4.77	5.24	5.72
		4.2	2.65	3.09	3.53	3.97	4.41	4.85	5.30
		4.8	2.48	2.89	3.30	3.72	4.13	4.54	4.95
		5.4	2.34	2.72	3.11	3.50	3.89	4.28	4.67
		6.0	2.22	2.58	2.95	3.32	3.69	4.06	4.43
Column 1	2	3	4	5	6	7	8	9	10

**Notes to Table A-11:**

- (1) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed *live load* on the floor does not exceed that specified for residential areas as described in Table 4.1.6.3.
- (2) Spans are valid for glued-laminated timber conforming to CAN/CSA-O122-M and CAN/CSA-O177-M.
- (3) Spans are clear spans between supports. For total span, add two bearing lengths.
- (4) Provide a minimum bearing length of 89 mm. (Alternatively, the bearing length may be designed in accordance with Part 4.)
- (5) Top edge of beam assumed to be fully laterally supported by joists.
- (6) Supported length means half the sum of the joist spans on both sides of the beam.
- (7) Straight line interpolation may be used for other supported lengths.

Table A-12

## Maximum Spans for Built-up Roof Ridge Beams - No. 1 or No. 2 Grade

Forming Part of Sentence 9.23.4.2.(4)

Commercial Designation	Beam Size mm	Maximum Span, m <sup>(1)(2)</sup>				
		Specified Snow Load, kPa				
		1.0	1.5	2.0	2.5	3.0
Douglas Fir - Larch (includes Douglas Fir and Western Larch)	3 - 38 x 184	2.42	2.08	1.86	1.69	1.56
	4 - 38 x 184	2.80	2.41	2.14	1.95	1.80
	5 - 38 x 184	3.13	2.89	2.40	2.18	2.01
	3 - 38 x 235	2.95	2.55	2.27	2.06	1.91
	4 - 38 x 235	3.42	2.94	2.62	2.38	2.20
	5 - 38 x 235	3.83	3.29	2.93	2.67	2.46
	3 - 38 x 286	3.44	2.96	2.63	2.40	2.21
	4 - 38 x 286	3.97	3.41	3.04	2.77	2.56
Hem - Fir (includes Western Hemlock and Amabilis Fir)	3 - 38 x 184	2.54	2.18	1.95	1.77	1.64
	4 - 38 x 184	2.93	2.52	2.25	2.05	1.89
	5 - 38 x 184	3.28	2.82	2.51	2.29	2.11
	3 - 38 x 235	3.11	2.67	2.38	2.17	2.00
	4 - 38 x 235	3.59	3.08	2.75	2.50	2.31
	5 - 38 x 235	4.01	3.45	3.07	2.80	2.58
	3 - 38 x 286	3.61	3.10	2.76	2.51	2.32
	4 - 38 x 286	4.16	3.58	3.19	2.90	2.68
Spruce - Pine - Fir (includes Spruce and species except Coast Sitka Spruce, Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	3 - 38 x 184	2.63	2.26	2.02	1.83	1.69
	4 - 38 x 184	3.04	2.61	2.33	2.12	1.96
	5 - 38 x 184	3.40	2.92	2.60	2.37	2.19
	3 - 38 x 235	3.22	2.77	2.46	2.24	2.07
	4 - 38 x 235	3.72	3.20	2.85	2.59	2.39
	5 - 38 x 235	4.16	3.57	3.18	2.90	2.68
	3 - 38 x 286	3.73	3.21	2.86	2.60	2.40
	4 - 38 x 286	4.31	3.71	3.30	3.01	2.78
Northern Species (includes any Canadian species covered by the NLGA Standard Grading Rules)	3 - 38 x 184	2.11	1.82	1.62	1.47	1.36
	4 - 38 x 184	2.44	2.10	1.87	1.70	1.57
	5 - 38 x 184	2.73	2.34	2.08	1.90	1.76
	3 - 38 x 235	2.58	2.22	1.98	1.80	1.66
	4 - 38 x 235	2.98	2.56	2.28	2.08	1.92
	5 - 38 x 235	3.33	2.87	2.55	2.32	2.15
	3 - 38 x 286	3.00	2.58	2.29	2.09	1.93
	4 - 38 x 286	3.46	2.98	2.65	2.41	2.23
Column 1	1	3	4	5	6	7

## Notes to Table A-12:

- a. The spans are calculated based on a maximum supported length of 4.9 m where supported length means half the sum of the rafter, joist or truss span on both sides of the beam. Spans may be increased by 5% for supported lengths not more than 4.3 m, or by 10% for supported lengths not more than 3.7 m.
- b. Provide minimum 39 mm bearing.

Table A-13

**Maximum Spans for Douglas Fir - Larch Lintels - No. 1 or No. 2 Grade  
Non-Structural Sheathing**

Forming Part of Sentences 9.23.12.3.(1) and (3)

Lintel Supporting	Lintel Size, mm <sup>(4)</sup>	Maximum Span, m <sup>(1) (2) (3)</sup>					
		Exterior Walls					Interior Walls
		Specified Snow Load, kPa					
		1.0	1.5	2.0	2.5	3.0	
Limited attic storage and ceiling	2 - 38 x 89	This Area Intentionally Left Blank					1.25
	2 - 38 x 140						1.78
	2 - 38 x 184						2.17
	2 - 38 x 235						2.65
	2 - 38 x 286						3.08
Roof and ceiling only	2 - 38 x 89	1.25	1.07	0.96	0.87	0.80	0.87
	2 - 38 x 140	1.78	1.53	1.36	1.24	1.15	1.24
	2 - 38 x 184	2.17	1.86	1.66	1.51	1.40	1.51
	2 - 38 x 235	2.65	2.28	2.03	1.85	1.71	1.85
	2 - 38 x 286	3.08	2.64	2.35	2.14	1.98	2.14
Roof, ceiling and 1 storey <sup>(5)</sup>	2 - 38 x 89	0.96	0.88	0.82	0.77	0.73	0.68
	2 - 38 x 140	1.37	1.26	1.17	1.10	1.04	0.97
	2 - 38 x 184	1.67	1.53	1.42	1.34	1.26	1.18
	2 - 38 x 235	2.04	1.88	1.74	1.63	1.54	1.44
	2 - 38 x 286	2.37	2.18	2.02	1.90	1.79	1.67
Roof, ceiling and 2 storeys <sup>(5)</sup>	2 - 38 x 89	0.86	0.81	0.77	0.73	0.70	0.61
	2 - 38 x 140	1.23	1.16	1.09	1.04	0.99	0.87
	2 - 38 x 184	1.50	1.41	1.33	1.27	1.21	1.06
	2 - 38 x 235	1.84	1.72	1.63	1.55	1.48	1.30
	2 - 38 x 286	2.13	2.00	1.89	1.80	1.72	1.51
Roof, ceiling and 3 storeys <sup>(5)</sup>	2 - 38 x 89	0.81	0.77	0.73	0.71	0.68	0.57
	2 - 38 x 140	1.15	1.10	1.05	1.01	0.97	0.82
	2 - 38 x 184	1.40	1.33	1.28	1.22	1.18	1.00
	2 - 38 x 235	1.71	1.63	1.56	1.50	1.44	1.22
	2 - 38 x 286	1.99	1.89	1.81	1.74	1.67	1.41
Column 1	2	3	4	5	6	7	8

**Notes to Table A-13:**

- (1) Spans are calculated based on a maximum supported joist or rafter length of 4.9 m and a maximum supported truss length of 9.8 m. Spans may be increased by 5% for supported lengths not more than 4.3 m, or by 10% for supported lengths not more than 3.7 m. Supported length means half the span of the longest supported member.
- (2) If floor joists span the full width of the *building* without support, lintel spans shall be reduced by 15% for Roof, ceiling and one *storey*, by 20% for Roof, ceiling and two *storeys*, and by 25% for Roof, ceiling and three *storeys*.
- (3) For ends of lintels fully supported by the wall, provide minimum 38 mm of bearing for lintel spans up to 3 m, or minimum 76 mm or bearing for lintel spans greater than 3 m.
- (4) A single piece of 89 mm thick lumber may be used in lieu of 2 pieces of 38 mm thick lumber on edge.
- (5) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed *live load* on the floor does not exceed that specified for residential areas as described in Table 4.1.6.3.



Table A-14

**Maximum Spans for Douglas Fir - Larch Lintels - No. 1 or No. 2 Grade  
Structural Sheathing<sup>(1)</sup>**

Forming Part of Sentences 9.23.12.3.(1) and (3)

Lintel Supporting	Lintel Size, mm <sup>(5)</sup>	Maximum Span, m <sup>(2)(3)(4)</sup>				
		Exterior Walls				
		Specified Snow Load, kPa				
		1.0	1.5	2.0	2.5	3.0
Roof and ceiling only	2 - 38 x 89	1.46	1.25	1.12	1.02	0.94
	2 - 38 x 140	2.08	1.79	1.59	1.45	1.34
	2 - 38 x 184	2.53	2.18	1.94	1.76	1.63
	2 - 38 x 235	3.09	2.66	2.37	2.16	1.99
	2 - 38 x 286	3.59	3.09	2.75	2.50	2.31
Roof, ceiling and 1 storey <sup>(6)</sup>	2 - 38 x 89	1.12	1.03	0.96	0.90	0.85
	2 - 38 x 140	1.60	1.47	1.37	1.28	1.21
	2 - 38 x 184	1.95	1.79	1.66	1.56	1.47
	2 - 38 x 235	2.39	2.19	2.03	1.91	1.80
	2 - 38 x 286	2.77	2.54	2.36	2.21	2.09
Roof, ceiling and 2 storeys <sup>(6)</sup>	2 - 38 x 89	1.01	0.95	0.90	0.85	0.81
	2 - 38 x 140	1.44	1.35	1.28	1.21	1.16
	2 - 38 x 184	1.75	1.64	1.55	1.48	1.41
	2 - 38 x 235	2.14	2.01	1.90	1.81	1.73
	2 - 38 x 286	2.49	2.33	2.21	2.10	2.00
Roof, ceiling and 3 storeys <sup>(6)</sup>	2 - 38 x 89	0.94	0.90	0.86	0.82	0.79
	2 - 38 x 140	1.35	1.28	1.22	1.18	1.13
	2 - 38 x 184	1.64	1.56	1.49	1.43	1.38
	2 - 38 x 235	2.00	1.91	1.82	1.75	1.68
	2 - 38 x 286	2.32	2.21	2.11	2.03	1.95
Column 1	2	3	4	5	6	7

**Notes to Table A-14:**

- (1) A minimum 9.5 mm thick structural panel conforming to CSA O121-M, CSA O151-M, CAN/CSA-O325.0 or CAN/CSA-O437.0 shall be fastened with at least 2 rows of fasteners conforming to Table 9.23.3.5 to the exterior face of the lintel, and a single row to the top plates and studs.
- (2) Spans are calculated based on a maximum supported joist or rafter length of 4.9 m and a maximum supported truss length of 9.8 m. Spans may be increased by 5% for supported lengths not more than 4.3 m, or by 10% for supported lengths not more than 3.7 m. Supported length means half the span of the longest supported members.
- (3) If floor joists span the full width of the *building* without support, lintels spans shall be reduced by 15% for Roof, ceiling and 1 storey, by 20% for Roof, ceiling and 2 storeys, and by 25% for Roof, ceiling and three storeys.
- (4) For ends of lintels fully supported by walls, provide minimum 38 mm of bearing for lintel spans up to 3 m, or minimum 76 mm of bearing for lintel spans greater than 3 m.
- (5) A single piece of 89 mm thick lumber may be used in lieu of 2 pieces of 38 mm thick lumber on edge.
- (6) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed *live load* on the floor does not exceed that specified for residential areas as described in Table 4.1.6.3.

Table A-15

**Maximum Spans for Hem - Fir Lintels - No. 1 or No. 2 Grade -  
Non-Structural Sheathing**

Forming Part of Sentences 9.23.12.3.(1) and (3)

Lintel Supporting	Lintel Size, mm <sup>(4)</sup>	Maximum Span, m <sup>(1) (2) (3)</sup>					
		Exterior Walls					Interior Walls
		Specified Snow Load, kPa					
		1.0	1.5	2.0	2.5	3.0	
Limited attic storage and ceiling	2 - 38 x 89 2 - 38 x 140 2 - 38 x 184 2 - 38 x 235 2 - 38 x 286	This Area Intentionally Left Blank					1.31 1.87 2.27 2.78 3.23
Roof and ceiling only	2 - 38 x 89 2 - 38 x 140 2 - 38 x 184 2 - 38 x 235 2 - 38 x 286	1.31 1.87 2.27 2.78 3.23	1.13 1.61 1.95 2.39 2.77	1.00 1.43 1.74 2.13 2.47	0.91 1.30 1.58 1.92 2.17	0.84 1.20 1.42 1.71 1.94	0.91 1.30 1.58 1.92 2.17
Roof, ceiling and 1 storey <sup>(5)</sup>	2 - 38 x 89 2 - 38 x 140 2 - 38 x 184 2 - 38 x 235 2 - 38 x 286	1.01 1.44 1.75 2.14 2.49	0.93 1.32 1.61 1.96 2.22	0.86 1.23 1.47 1.76 2.00	0.81 1.14 1.34 1.60 1.82	0.76 1.05 1.23 1.48 1.69	0.69 0.95 1.12 1.35 1.55
Roof, ceiling and 2 storeys <sup>(5)</sup>	2 - 38 x 89 2 - 38 x 140 2 - 38 x 184 2 - 38 x 235 2 - 38 x 286	0.91 1.29 1.57 1.90 2.15	0.85 1.21 1.44 1.73 1.97	0.80 1.13 1.33 1.60 1.82	0.76 1.05 1.24 1.49 1.70	0.72 0.98 1.16 1.40 1.60	0.60 0.82 0.98 1.19 1.37
Roof, ceiling and 3 storeys <sup>(5)</sup>	2 - 38 x 89 2 - 38 x 140 2 - 38 x 184 2 - 38 x 235 2 - 38 x 286	0.85 1.21 1.43 1.72 1.95	0.81 1.14 1.33 1.60 1.82	0.77 1.06 1.25 1.50 1.72	0.74 1.00 1.18 1.42 1.63	0.69 0.95 1.12 1.35 1.55	0.55 0.76 0.91 1.10 1.27
Column 1	2	3	4	5	6	7	8

**Notes to Table A-15:**

- (1) Spans are calculated based on a maximum supported joist or rafter length of 4.9 m and a maximum supported truss length of 9.8 m. Spans may be increased by 5% for supported lengths not more than 4.3 m, or by 10% for supported lengths not more than 3.7 m. Supported length means half the span of the longest supported member.
- (2) If floor joists span the full width of the *building* without support, lintels spans shall be reduced by 15% for Roof, ceiling and 1 storey, by 20% for Roof, ceiling and 2 storeys, and by 25% for Roof, ceiling and 3 storeys.
- (3) For ends of lintels fully supported by walls, provide minimum 38 mm of bearing for lintel spans up to 3 m, or minimum 76 mm of bearing for lintel spans greater than 3 m.
- (4) A single piece of 89 mm thick lumber may be used in lieu of 2 pieces of 38 mm thick lumber on edge.
- (5) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed *live load* on the floor does not exceed that specified for residential areas as described in Table 4.1.6.3.

Table A-16

**Maximum Spans for Hem - Fir Lintels - No. 1 or No. 2 Grade -  
Structural Sheathing<sup>(1)</sup>**

Forming Part of Sentences 9.23.12.3.(1) and (3)

Lintel Supporting	Lintel Size mm, <sup>(5)</sup>	Maximum Span, m <sup>(2) (3) (4)</sup>				
		Exterior Walls				
		Specified Snow Load, kPa				
		1.0	1.5	2.0	2.5	3.0
Roof and ceiling only	2 - 38 x 89	1.47	1.29	1.17	1.07	0.98
	2 - 38 x 140	2.18	1.88	1.67	1.52	1.40
	2 - 38 x 184	2.65	2.28	2.03	1.85	1.71
	2 - 38 x 235	3.25	2.79	2.49	2.26	2.08
	2 - 38 x 286	3.77	3.24	2.88	2.62	2.35
Roof, ceiling and 1 storey <sup>(6)</sup>	2 - 38 x 89	1.18	1.08	1.00	0.94	0.89
	2 - 38 x 140	1.68	1.54	1.43	1.34	1.27
	2 - 38 x 184	2.05	1.88	1.74	1.63	1.49
	2 - 38 x 235	2.50	2.30	2.13	1.94	1.78
	2 - 38 x 286	2.91	2.66	2.42	2.20	2.03
Roof, ceiling and 2 storeys <sup>(6)</sup>	2 - 38 x 89	1.06	0.99	0.94	0.89	0.85
	2 - 38 x 140	1.51	1.42	1.34	1.27	1.19
	2 - 38 x 184	1.84	1.73	1.62	1.50	1.40
	2 - 38 x 235	2.25	2.11	1.93	1.79	1.68
	2 - 38 x 286	2.61	2.38	2.19	2.03	1.91
Roof, ceiling and 3 storeys <sup>(6)</sup>	2 - 38 x 89	0.99	0.94	0.90	0.86	0.83
	2 - 38 x 140	1.41	1.34	1.28	1.22	1.15
	2 - 38 x 184	1.72	1.62	1.52	1.43	1.35
	2 - 38 x 235	2.09	1.94	1.81	1.71	1.62
	2 - 38 x 286	2.37	2.20	2.06	1.94	1.84
Column 1	2	3	4	5	6	7

**Notes to Table A-16:**

- (1) A minimum 9.5 mm thick structural panel conforming to CSA O121-M, CSA O151-M, CAN/CSA-O325.0 or CAN/CSA-O437.0 shall be fastened with at least 2 rows of fasteners conforming to Table 9.23.3.5 to the exterior face of the lintel, and a single row to the top plates and studs.
- (2) Spans are calculated based on a maximum supported joist or rafter length of 4.9 m and a maximum supported truss length of 9.8 m. Spans may be increased by 5% for supported lengths not more than 4.3 m, or by 10% for supported lengths not more than 3.7 m. Supported length means half the span of the longest supported member.
- (3) If floor joists span the full width of the *building* without support, lintels spans shall be reduced by 15% for Roof, ceiling and 1 storey, by 20% for Roof, ceiling and 2 storeys, and by 25% for Roof, ceiling and 3 storeys.
- (4) For ends of lintels fully supported by walls, provide minimum 38 mm of bearing for lintel spans up to 3 m, or minimum 76 mm of bearing for lintel spans greater than 3 m.
- (5) A single piece of 89 mm thick lumber may be used in lieu of 2 pieces of 38 mm thick lumber on edge.
- (6) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed live load on the floor does not exceed that specified for residential areas as described in Table 4.1.6.3.



Table A-17

**Maximum Spans for Spruce - Pine - Fir Lintels - No. 1 or No. 2 Grade  
Non-Structural Sheathing**

Forming Part of Sentences 9.23.12.3.(1) and (3)

Lintel Supporting	Lintel Size, mm <sup>(4)</sup>	Maximum Span, m <sup>(1) (2) (3)</sup>					
		Exterior Walls					Interior Walls
		Specified Snow Load, kPa					
		1.0	1.5	2.0	2.5	3.0	
Limited attic storage and ceiling	2 - 38 x 89 2 - 38 x 140 2 - 38 x 184 2 - 38 x 235 2 - 38 x 286	This Area Intentionally Left Blank					1.27 1.99 2.51 3.07 3.57
Roof and ceiling only	2 - 38 x 89 2 - 38 x 140 2 - 38 x 184 2 - 38 x 235 2 - 38 x 286	1.27 1.93 2.35 2.88 3.34	1.11 1.66 2.02 2.47 2.87	1.01 1.48 1.80 2.20 2.56	0.93 1.35 1.64 2.01 2.33	0.87 1.25 1.52 1.84 2.09	0.93 1.35 1.64 2.01 2.33
Roof, ceiling and 1 storey <sup>(5)</sup>	2 - 38 x 89 2 - 38 x 140 2 - 38 x 184 2 - 38 x 235 2 - 38 x 286	1.05 1.49 1.82 2.22 2.58	0.96 1.37 1.67 2.04 2.36	0.89 1.27 1.55 1.89 2.15	0.84 1.19 1.44 1.73 1.96	0.79 1.13 1.33 1.59 1.81	0.74 1.02 1.20 1.45 1.66
Roof, ceiling and 2 storeys <sup>(5)</sup>	2 - 38 x 89 2 - 38 x 140 2 - 38 x 184 2 - 38 x 235 2 - 38 x 286	0.94 1.34 1.63 1.99 2.31	0.88 1.26 1.53 1.87 2.12	0.83 1.19 1.44 1.72 1.96	0.79 1.13 1.33 1.60 1.82	0.76 1.06 1.25 1.50 1.71	0.64 0.88 1.05 1.27 1.45
Roof, ceiling and 3 storeys <sup>(5)</sup>	2 - 38 x 89 2 - 38 x 140 2 - 38 x 184 2 - 38 x 235 2 - 38 x 286	0.88 1.25 1.52 1.86 2.11	0.83 1.19 1.44 1.73 1.96	0.80 1.14 1.35 1.62 1.84	0.77 1.08 1.27 1.53 1.74	0.74 1.02 1.21 1.45 1.66	0.59 0.81 0.97 1.17 1.35
Column 1	2	3	4	5	6	7	8

**Notes to Table A-17:**

- (1) Spans are calculated based on a maximum supported joist or rafter length of 4.9 m and a maximum supported truss length of 9.8 m. Spans may be increased by 5% for supported lengths not more than 4.3 m, or by 10% for supported lengths not more than 3.7 m. Supported length means half the span of the longest supported member.
- (2) If floor joists span the full width of the *building* without support, lintels spans shall be reduced by 15% for Roof, ceiling and 1 storey, by 20% for Roof, ceiling and 2 storeys, and by 25% for Roof, ceiling and 3 storeys.
- (3) For ends of lintels fully supported by walls, provide minimum 38 mm of bearing for lintel spans up to 3 m, or minimum 76 mm or bearing for lintel spans greater than 3 m.
- (4) A single piece of 89 mm thick lumber may be used in lieu of 2 pieces of 38 mm thick lumber on edge.
- (5) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed *live load* on the floor does not exceed that specified for residential areas as described in table 4.1.6.3.

Table A-18

**Maximum Spans for Spruce - Pine - Fir Lintels - No. 1 or No. 2 Grade  
Structural Sheathing<sup>(1)</sup>**

Forming Part of Sentences 9.23.12.3.(1) and (3)

Lintel Supporting	Lintel Size, mm <sup>(5)</sup>	Maximum Span, m <sup>(2) (3) (4)</sup>				
		Exterior Walls				
		Specified Snow Load, kPa				
		1.0	1.5	2.0	2.5	3.0
Roof and ceiling only	2 - 38 x 89	1.40	1.23	1.11	1.03	0.97
	2 - 38 x 140	2.21	1.93	1.73	1.57	1.45
	2 - 38 x 184	2.75	2.36	1.10	1.92	1.77
	2 - 38 x 235	3.36	2.89	2.57	2.34	2.16
	2 - 38 x 286	3.90	3.35	2.99	2.72	2.51
Roof, ceiling and 1 storey <sup>(6)</sup>	2 - 38 x 89	1.16	1.08	1.01	0.96	0.92
	2 - 38 x 140	1.74	1.60	1.48	1.39	1.32
	2 - 38 x 184	2.12	1.95	1.81	1.69	1.60
	2 - 38 x 235	2.59	2.38	2.21	2.07	1.93
	2 - 38 x 286	3.01	2.76	2.56	2.38	2.19
Roof, ceiling and 2 storeys <sup>(6)</sup>	2 - 38 x 89	1.09	1.03	0.97	0.92	0.88
	2 - 38 x 140	1.56	1.47	1.39	1.32	1.26
	2 - 38 x 184	1.90	1.79	1.69	1.61	1.51
	2 - 38 x 235	2.33	2.19	2.07	1.94	1.81
	2 - 38 x 286	2.70	2.54	2.37	2.20	2.05
Roof, ceiling and 3 storeys <sup>(6)</sup>	2 - 38 x 89	1.02	0.97	0.93	0.89	0.86
	2 - 38 x 140	1.46	1.39	1.33	1.28	1.23
	2 - 38 x 184	1.78	1.69	1.62	1.54	1.46
	2 - 38 x 235	2.17	2.07	1.96	1.84	1.74
	2 - 38 x 286	2.52	2.38	2.22	2.09	1.98
Column 1	2	3	4	5	6	7

**Notes to Table A-18:**

- (1) A minimum 9.5 mm thick structural panel conforming to CSA O121-M, CSA O151-M, CAN/CSA-O325.0 or CAN/CSA-O437.0 shall be fastened with at least 2 rows of fasteners conforming to Table 9.23.3.5 to the exterior face of the lintel, and a single row to the top plates and studs.
- (2) Spans are calculated based on a maximum supported joist or rafter length of 4.9 m and a maximum supported truss length of 9.8 m. Spans may be increased by 5% for supported lengths not more than 4.3 m, or by 10% for supported lengths not more than 3.7 m. Supported length means half the span of the longest supported member.
- (3) If roof joists span the full width of the *building* without support, lintels spans shall be reduced by 15% for roof, ceiling and one storey, by 20% for roof, ceiling and two storeys, and by 25% for roof, ceiling and three storeys.
- (4) For ends of lintels fully supported by walls, provide minimum 38 mm of bearing for lintel spans up to 3 m, or minimum 76 mm of bearing for lintel spans greater than 3 m.
- (5) A single piece of 89 mm thick lumber may be used in lieu of 2 pieces of 38 mm thick lumber on edge.
- (6) Spans apply only where the floors serve residential areas as described in Table 4.1.6.3., or the uniformly distributed *live load* on the floor does not exceed that specified for residential areas as described in Table 4.1.6.3.

Table A-19

**Maximum Spans for Built-up Lintels - Roof and Ceiling Load Only - No. 1 or No. 2 Grade**

Forming Part of Sentences 9.23.12.3.(1) and (3)

Commercial Designation	Lintel Size, mm	Maximum Span, m <sup>(1) (2)</sup>				
		Specified Snow Load, kPa				
		1.0	1.5	2.0	2.5	3.0
Douglas Fir - Larch (includes Douglas Fir and Western larch)	3 - 38 x 184	2.76	2.38	2.12	1.93	1.78
	4 - 38 x 184	3.19	2.74	2.44	2.22	2.05
	5 - 38 x 184	3.57	3.07	2.73	2.49	2.30
	3 - 38 x 235	3.38	2.90	2.59	2.35	2.18
	4 - 38 x 235	3.90	3.35	2.99	2.72	2.51
	5 - 38 x 235	4.36	3.75	3.34	3.04	2.81
	3 - 38 x 286	3.92	3.37	3.00	2.73	2.52
	4 - 38 x 286	4.53	3.89	3.47	3.15	2.91
	5 - 38 x 286	5.06	4.35	3.87	3.53	3.26
Hem - Fir (includes Western Hemlock and Amabilis Fir)	3 - 38 x 184	2.90	2.49	2.22	2.02	1.87
	4 - 38 x 184	3.35	2.88	2.56	2.33	2.15
	5 - 38 x 184	3.73	3.22	2.86	2.61	2.41
	3 - 38 x 235	3.54	3.05	2.71	2.47	2.28
	4 - 38 x 235	4.09	3.52	3.13	2.85	2.63
	5 - 38 x 235	4.57	3.93	3.50	3.19	2.95
	3 - 38 x 286	4.11	3.53	3.15	2.87	2.62
	4 - 38 x 286	4.75	4.08	3.63	3.31	3.06
	5 - 38 x 286	5.31	4.56	4.06	3.70	3.42
Spruce - Pine - Fir (includes Spruce (all species except Coast Sitka Spruce) Jack Pine, Lodgepole Pine, Balsam Fir and Alpine Fir)	3 - 38 x 184	3.00	2.58	2.30	2.09	1.93
	4 - 38 x 184	3.30	2.88	2.62	2.42	2.23
	5 - 38 x 184	3.55	3.10	2.82	2.62	2.46
	3 - 38 x 235	3.67	3.15	2.81	2.56	2.36
	4 - 38 x 235	4.21	3.64	3.24	2.95	2.73
	5 - 38 x 235	4.54	3.96	3.60	3.30	3.05
	3 - 38 x 286	4.26	3.66	3.26	2.97	2.74
	4 - 38 x 286	4.92	4.23	3.76	3.43	3.17
	5 - 38 x 286	5.49	4.73	4.21	3.83	3.54
Column 1	2	3	4	5	6	7

**Notes to Table A-19:**

(1) Spans are calculated based on a maximum supported length of 4.9 m. Spans may be increased by 15% for supported lengths not more than 3.7 m, or by 35% for supported lengths not more than 2.4 m. Supported length means half span of the trusses, roof joists or rafters supported by the lintel plus the length of the overhang beyond the lintel.

(2) For ends of lintels fully supported by the wall, provide minimum 38 mm of bearing for lintel spans up to 3 m, or minimum 76 mm of bearing for lintel spans greater than 3 m.



Table A-20

**Maximum Spans for Glued-Laminated Timber Lintels  
20f-E Stress Grade - Exterior Walls - Roof and Ceiling Load Only**

Forming part of Sentences 9.23.12.3.(1) and (3)

Lintel Size, mm	Maximum Span, m <sup>(1) (2) (3)</sup>														
	Specified Snow Load, kPa														
	1.0			1.5			2.0			2.5			3.0		
	Supported length m <sup>(4) (5)</sup>			Supported length m <sup>(4) (5)</sup>			Supported length m <sup>(4) (5)</sup>			Supported length m <sup>(4) (5)</sup>			Supported length m <sup>(4) (5)</sup>		
	2.4	3.6	4.8	2.4	3.6	4.8	2.4	3.6	4.8	2.4	3.6	4.8	2.4	3.6	4.8
130 x 304	6.23	5.63	5.24	5.63	5.09	4.73	5.24	4.73	4.40	4.95	4.48	4.17	4.73	4.28	3.87
80 x 380	6.52	5.89	5.48	5.89	5.32	4.96	5.48	4.96	4.52	5.19	4.69	4.11	4.96	4.39	3.80
130 x 342	6.80	6.15	5.72	6.15	5.56	5.17	5.72	5.17	4.81	5.41	4.89	4.55	5.17	4.67	4.35
80 x 418	7.00	6.33	5.89	6.33	5.72	5.32	5.89	5.32	4.96	5.57	5.03	4.52	5.32	4.81	4.18
130 x 380	7.36	6.65	6.19	6.65	6.01	5.59	6.19	5.59	5.21	5.86	5.29	4.92	5.59	5.06	4.70
80 x 456	7.48	6.76	6.29	6.76	6.10	5.68	6.29	5.68	5.29	5.95	5.37	4.93	5.68	5.13	4.56
130 x 418	7.91	7.15	6.65	7.15	6.46	6.01	6.65	6.01	5.59	6.29	5.68	5.29	6.01	5.43	5.05
80 x 494	7.94	7.17	6.68	7.17	6.48	6.03	6.68	6.03	5.61	6.31	5.71	5.31	6.03	5.45	4.94
80 x 532	8.39	7.58	7.06	7.58	6.85	6.38	7.06	6.38	5.93	6.67	6.03	5.61	6.38	5.76	5.32
130 x 456	8.44	7.63	7.10	7.63	6.89	6.41	7.10	6.41	5.97	6.71	6.07	5.65	6.41	5.80	5.39
Column 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

**Notes to Table A-20:**

- (1) Spans are valid for glued-laminated timber conforming to CAN/CSA-O122-M and CAN/CSA-O177-M.
- (2) Provide minimum 89 mm bearing. (Alternatively, the bearing length may be calculated in accordance with Part 4.)
- (3) Top edge of lintel assumed to be fully laterally supported.
- (4) Supported length means half the length of trusses or rafters, plus the length of overhang beyond the wall.
- (5) For intermediate supported lengths, straight line interpolation may be used.

## Part 10

### Change of Use

Section	10.1.	General
	10.1.1.	Scope
Section	10.2.	Classification of Existing Buildings
	10.2.1.	Classification
Section	10.3.	Requirements
	10.3.1.	General
	10.3.2.	Performance Level
Section	10.4.	Compliance Alternatives And Alternative Measures
	10.4.1.	Compliance Alternatives
	10.4.2.	Alternative Measures

## Part 10

### Change of Use

#### Section 10.1. General

##### 10.1.1. Scope

##### 10.1.1.1. Scope

(1) The scope of this Part shall be as described in Section 2.1.

##### 10.1.1.2. Change in Major Occupancy

(1) The following changes of use shall also be deemed to be a change in *major occupancy* for the purposes of this Part:

- (a) a *suite* of a Group C *major occupancy* is converted into more than one *suite* of Group C *major occupancy*,
- (b) a *farm building* or part of a *farm building* is changed to a *major occupancy*, and
- (c) the use of a *building* or part of a *building* is changed and the previous *major occupancy* of the *building* or part of the *building* cannot be determined.

##### 10.1.1.3. Definitions

(1) In this Part, the following words and terms have the meaning that they are given in Article 11.1.1.2.:

*Building system*

#### Section 10.2. Classification of Existing Buildings

##### 10.2.1. Classification

##### 10.2.1.1. Classification of Major Occupancy

(1) Every existing *building* or part thereof shall be classified according to its *major occupancy* in accordance with the requirements of Subsection 3.1.2.

##### 10.2.1.2. Classification According to Construction and Occupancy

(1) For the purposes of this Part, existing *buildings* shall be classified as to their *construction* and *occupancy* as provided for in Sentence 11.2.1.1.(1).

##### 10.2.1.3. Building Size and Construction

(1) The requirements of Articles 3.2.2.20. to 3.2.2.83. do not apply to this Part.

#### Section 10.3. Requirements

##### 10.3.1. General

##### 10.3.1.1. General

(1) Except as provided in Section 10.4., a *building* or part of a *building* subject to a change of *major occupancy* shall conform to the requirements of Subsection 3.2.6., Sections 3.7., 3.11., 9.5. and 9.7., Subsection 9.10.16., Sections 9.31. and 9.32., and Subsections 9.34.1., 9.34.2. and 9.34.3. as they apply to the new *major occupancy* that the *building* or part of a *building* is to support.

##### 10.3.2. Performance Level

##### 10.3.2.1. General

(1) The *performance level* of a *building* after the change of *major occupancy* shall not be less than the *performance level* prior to the change of *major occupancy*.

(2) For the purposes of Sentence (1), reduction of *performance level* shall be determined in accordance with Article 10.3.2.2.

##### 10.3.2.2. Reduction in Performance Level

(1) Except as provided in Sentence (2), the *performance level* of a *building* or part of a *building* is reduced where the existing structural floor and roof framing systems and their supporting members are not adequate to support the proposed *dead loads* and *live loads* of the new *major occupancy* that the *building* is to support.

(2) The inadequacy of the existing structural floor or roof framing system and its supporting members to support the proposed *dead loads* and *live loads* does not reduce the *performance level* of the *building* if the portion of the floor affected by the proposed loads is restricted to the loading it will support and signs stating the restrictions are posted.

(3) Except as provided in Section 10.4., the *performance level* of a *building* or part of a *building* is reduced where the early warning and evacuation systems requirements of the *building* do not meet the early warning and evacuation systems requirements set out in Table 10.3.2.2.A. for the new *major occupancy* that the *building* is to support.

Table 10.3.2.2.A.

## For Evaluation of Early Warning/Evacuation

Forming Part of Sentence 10.3.2.2.(3)

EW/EVAC Evaluation	Compliance Alternative <sup>(1)</sup>
<p>Early Warning and Evacuation to be checked against</p> <p>(a) <i>access to exit</i> widths based on <i>occupant load</i> in Subsection 3.3.1. or 9.9.3.;</p> <p>(b) <i>exit</i> widths based on <i>occupant load</i> in Subsection 3.4.3. or 9.9.3.;</p> <p>(c) <i>exit</i> signs in Subsection 3.4.5. or 9.9.10.;</p> <p>(d) lighting of <i>exits</i>, lighting of <i>access to exits</i> and emergency lighting in Subsection 3.2.7. or 9.9.11.;</p> <p>(e) fire alarm system in Subsection 3.2.4. or 9.10.17.;</p> <p>(f) <i>smoke alarms</i> in 9.10.18.;</p> <p>(g) travel distance and number of <i>exits</i> in other Parts of the Code;</p> <p>(h) smoke control measures, and at least one elevator to permit transport of firefighters to all floors in <i>hotels</i> whose floor level is more than 18 m high, measured between <i>grade</i> and floor level of the top <i>storey</i> as per Subsection 3.2.6., and</p> <p>deficiencies shall be upgraded.</p>	<p>EARLY WARNING</p> <p>(a) <i>Compliance alternatives</i> as listed may be used.</p> <p>EVACUATION</p> <p>(b) <i>Compliance alternatives</i> as listed to <i>access to exit</i> and <i>exit</i> widths, number of <i>exits</i>, and travel distance may be used.</p>
Column 1	2

**Note to Table 10.3.2.2.A.:**

(1) See Tables 11.5.1.1.A., 11.5.1.1.B., 11.5.1.1.C., 11.5.1.1.D/E and 11.5.1.1.F. for *compliance alternatives* that may be used.

(4) Except as provided in Sentence (5), the *performance level* of an existing *building* is reduced where a change in use will result in a change of the *major occupancy* of all or part of an existing *building* to another *major occupancy* of a greater *hazard index*.

(5) Except as provided in Sentence (6), if the *hazard index* of the new *major occupancy* is greater than the *hazard index* of the existing *major occupancy*, the *performance level* is not reduced where the *hazard index* of the new *major occupancy* is not greater than the *construction index* of the existing *building*.

(6) Small or medium sized existing *buildings* as determined in Tables 11.2.1.1.B. to N. facing multiple streets may be assigned a *hazard index* credit of 1, which may be subtracted from the *hazard index* of the new *major occupancy* provided

- (a) the *building* does not contain a Group B, Division 1, a Group C, or a Group F, Division 1 *occupancy*, and
- (b) fire fighting access complying with Articles 3.2.5.1., 3.2.5.2., 3.2.5.3., 3.2.5.4. and 3.2.5.5. or Subsection 9.10.9., or an approved *alternative measure* is provided from all *streets*.

(7) Except as provided in Sentence (8), the *performance level* of a *building* or part of a *building* is reduced in an existing *building* constructed of *combustible construction* where

- (a) the *occupancy* is changed to a *residential occupancy* in all or part of the *building*, and
- (b) if the *building* was new, it would have been required to be constructed of *noncombustible construction*.

(8) A change in the *occupancy* of a *building* or part of a *building* to a *residential occupancy* does not reduce the *performance level* of the *building* or part of the *building* where

- (a) the *building* is *sprinklered*, and
- (b) the *building* does not exceed 6 *storeys* in *building height*.

(9) The *performance level* of a *building* or part of a *building* is reduced where the new *major occupancy* in an existing *building* of multiple *occupancy* is not separated from adjoining *major occupancies* by *fire separations* having *fire-resistance ratings* conforming to Article 3.1.3.1., Subsection 9.10.9. or Table 10.3.2.2.B.



Table 10.3.2.2.B.<sup>(1)</sup>**Additional Upgrading for Multiple Major Occupancies**

Forming Part of Sentence 10.3.2.2.(9)

New Major Occupancy	Code Requirements	Compliance Alternative
All <sup>(2)</sup>	Table 3.1.3.1. and Subsection 9.10.9.  Where: 1 h rating required 2 h rating required 3 h rating required	For Existing Buildings  If Sprinklered  Reduce to 45 min 1.5 h 2 h  Reduce to 30 min 1 h 1.5 h
Column 1	2	3

**Notes to Table 10.3.2.2.B.:**

(1) For *buildings* with multiple *major occupancies* only, where there is a change in *major occupancy*.

(2) See Sentence 10.3.2.2.(9).

(10) The *performance level* of a *building* is reduced where the *building* after the change of *major occupancy* will not comply with Articles 3.1.3.1. or 9.10.9.12.

**Section 10.4. Compliance Alternatives And Alternative Measures****10.4.1. Compliance Alternatives****10.4.1.1. Substitution**

(1) Except as provided in Sentence (3), a *compliance alternative* to a requirement contained in Part 3, 4, 5, 6 or 7 which is shown in Tables 11.5.1.1.A., 11.5.1.1.B., 11.5.1.1.C., 11.5.1.1.D/E. or 11.5.1.1.F. may be substituted for the requirement where the *chief building official* is satisfied that compliance with the requirement is impracticable because

(a) of structural or *construction* difficulties, or

(b) it is detrimental to the preservation of a *heritage building*.

(2) Except as provided in Sentence (3), a *compliance alternative* to a requirement contained in Part 9 shown in Tables 11.5.1.1.C., 11.5.1.1.D/E. or 11.5.1.1.F. may be substituted for the requirement without satisfying the *chief building official* that the requirement is impracticable.

(3) Where the *building* has been in existence for less than five years, *compliance alternatives* may only be used in respect of requirements of the Code which are referenced in Sentences 10.3.2.2.(3), (5) and Table 10.3.2.2.B.

**10.4.2. Alternative Measures****10.4.2.1. Substitution**

(1) Except as permitted in Sentence (2), an *alternative measure* to

(a) a requirement of Part 3, 4, 5, 6, 7 or 9 of the Code, or

(b) a *compliance alternative*,

may be substituted for the requirement or the *compliance alternative*, as the case may be, where the *chief building official* is satisfied that compliance with the requirement or the *compliance alternative*, as the case may be, is impracticable because

(c) of structural or *construction* difficulties, or

(d) it is detrimental to the preservation of a *heritage building*.

(2) Where the *building* has been in existence for less than five years, *alternative measures* may only be used in respect of requirements of the Code which are referenced in Sentence 10.3.2.2.(3), (5) and Table 10.3.2.2.B.

**Part 11  
Renovation**

Section	11.1.	General
	11.1.1.	Scope
	11.1.2.	Application

Section	11.2.	Classification of Existing Buildings
	11.2.1.	Classification

Section	11.3.	Proposed Construction
	11.3.1.	New and Existing Building Systems
	11.3.2.	Extension of Buildings
	11.3.3.	Renovation
	11.3.4.	Plumbing

Section	11.4.	Performance Level Evaluation and Compensating Construction
	11.4.1.	General
	11.4.2.	Reduction in Performance Level
	11.4.3.	Compensating Construction

Section	11.5.	Compliance Alternatives and Alternative Measures
	11.5.1.	Compliance Alternatives
	11.5.2.	Alternative Measures

**Part 11  
Renovation****Section 11.1. General****11.1.1. Scope****11.1.1.1. Scope**

(1) The scope of this Part shall be as described in Section 2.1.

**11.1.1.2. Definitions**

(1) In this Part,

*Building system* means a combination of elements or components that form a complete major division of *construction* in the design of a *building* or part of a *building*, including a structural or framing system, a waterproofing system, a drainage system, an exterior cladding system, a roofing system, a window system, a partition system, a corridor system, a stair system, a fire alarm and detection system, a sprinkler system or a heating, ventilation or *air conditioning* system, a *foundation* system, a standpipe and hose system, a flooring system, a *plumbing system*, or an electrical system.

**11.1.2. Application****11.1.2.1. Extension, Material Alteration or Repair**

(1) Where an existing *building* is subject to extension, material alteration or repair

(a) the proposed *construction* shall comply with Section 11.3., and

- (b) the *performance level* of the *building* shall be evaluated and compensating *construction* shall be undertaken in accordance with Section 11.4.

## Section 11.2. Classification of Existing Buildings

### 11.2.1. Classification

#### 11.2.1.1. Construction Index and Hazard Index

(1) There proposed *construction* will result in the change of *major occupancy* of all or part of an existing *building* to another *major occupancy*, the *building* shall be classified as to its

- (a) *construction* on the basis of *construction index* as provided for in this Part including Table 11.2.1.1.A., and

- (b) *occupancy* on the basis of *hazard index* as provided for in this Part including Tables 11.2.1.1.B. to 11.2.1.1.N.

(2) Small or medium sized existing *buildings* as determined in Tables 11.2.1.1.B. to 11.2.1.1.N. facing multiple *streets* may be assigned a *hazard index* credit of 1, which may be subtracted from the *hazard index* of the proposed *major occupancy* to reduce the additional upgrading required by Table 11.4.3.4.A. provided

- (a) the *building* does not contain a Group B, Division 1; a Group C, or a Group F, Division 1 *occupancy*, and

- (b) fire fighting access complying with Articles 3.2.5.1., 3.2.5.2., 3.2.5.3., 3.2.5.4. and 3.2.5.5. or Subsection 9.10.19., or an approved *alternative measure*, is provided from all *streets*.

(3) The requirements of Articles 3.2.2.20. to 3.2.2.83. do not apply to this Part.

#### 11.2.1.2. Multiple Occupancies

(1) The classification of an existing *building* of multiple *occupancy* under Article 11.2.1.1. shall be applied according to Articles 3.2.2.5. to 3.2.2.8.

#### 11.2.1.3. Prohibition of Occupancy Combinations

(1) Nothing in this Part relieves an applicant from complying with the requirements of Articles 3.1.3.2. or 9.10.9.12.

## Section 11.3. Proposed Construction

### 11.3.1. New and Existing Building Systems

#### 11.3.1.1. Material Alteration or Repair of a Building System

(1) Where an existing *building system* is materially altered or repaired, the *performance level* of the *building* after the material alteration or repair shall be at least equal to the *performance level* of the *building* prior to the material alteration or repair.

#### 11.3.1.2. New Building Systems and Extension of Existing Building Systems

(1) Except as provided in Article 11.3.3.1. and Section 11.5., the design and *construction* of a new *building system* or the extension of an existing *building system*, shall comply with all other Parts of the Code.

### 11.3.2. Extension of Buildings

#### 11.3.2.1. Portion of Extended Buildings

- (1) Where an existing *building* is extended

- (a) this Part applies to the existing portion of the *building*, and

- (b) the extended portion of the *building* shall comply with all other Parts of the Code.

### 11.3.3. Renovation

#### 11.3.3.1. Basic Renovation

(1) Except as provided in Sentence (2) and Article 11.3.3.2., *construction* may be carried out to maintain the existing *performance level* of all or part of an existing *building*, by the reuse, relocation or extension of the same or similar materials or components, to retain the existing character, structural uniqueness, heritage value, or aesthetic appearance of all or part of the *building* if, the *construction* will not adversely affect the early warning and evacuation systems, fire separations, the structural adequacy or create an unhealthy environment in the *building*.

(2) *Construction* in respect of a *hotel* may only be carried out in accordance with Sentence (1) provided that the *construction* will be in conformance with Part 9 of the Ontario Fire Code made under the *Fire Marshals Act*.

#### 11.3.3.2. Extensive Renovation

(1) Except as provided in Subsection 11.5.2., where existing interior walls or ceilings or floor assemblies or roof assemblies are substantially removed in an existing *building* and new interior walls, ceilings, or floor assemblies are installed in the *building*, structural and fire-resistance elements shall be constructed in compliance with the requirements of the other Parts of the Code.

### 11.3.4. Plumbing

#### 11.3.4.1. Existing Plumbing System

(1) Notwithstanding Subsections 11.3.1., 11.3.2., 11.3.3., where an existing *plumbing system* is extended or subject to material alteration or repair, the *construction* of plumbing shall comply with Part 7.

## Section 11.4. Performance Level Evaluation and Compensating Construction

### 11.4.1. General

#### 11.4.1.1. Performance Level

(1) The *performance level* of a *building* after *construction* shall not be less than the *performance level* of the *building* prior to *construction*.

(2) For the purposes of Sentence (1), reduction of *performance level* shall be determined in accordance with Subsection 11.4.2.

(3) Where the proposed *construction* would reduce the *performance level* of an existing *building*, compensating *construction* shall be required in conformance with Subsection 11.4.3.

#### 11.4.2. Reduction in Performance Level

##### 11.4.2.1. Structural

(1) The *performance level* of an existing *building* is reduced where after proposed *construction* in all or part of an existing *building*



- (a) the *major occupancy* will change to a different *major occupancy*,
- (b) the *occupant load* will increase by more than 15%, or
- (c) the *live load* will increase due to change in use within the same *major occupancy*,

and the existing structural floor and roof framing systems and their supporting members after the *construction* are not adequate to support the proposed *dead loads* and *live loads*.

#### 11.4.2.2. Increase in Occupant Load

(1) The *performance level* of an existing *building* is reduced where proposed *construction* will increase the *occupant load* of an existing *building* by more than 15%.

(2) The *performance level* of an existing *building* is reduced where proposed *construction* will increase the *occupant load* by 15% or less and the new *occupant load* will be more than 15% above the *occupant load* for which a fire alarm system is required under Sentence 3.2.4.1.(2).

(3) The *performance level* of an existing *building* is reduced where proposed *construction* will increase the *occupant load* by 15% or less and the new *occupant load* will be more than 15% above the existing exit capacity as required under Article 3.4.3.4.

#### 11.4.2.3. Change of Major Occupancy

(1) The *performance level* of an existing *building* is reduced where proposed *construction* will result in

- (a) the change of the *major occupancy* of all or part of an existing *building* to another *major occupancy* of a greater hazard index,
- (b) the conversion of a *suite* of a Group C *major occupancy* into more than one *suite* of Group C *major occupancy*,
- (c) the change of a *farm building* or part of a *farm building* to a *major occupancy*, or
- (d) the change in use of a *building* or part of a *building* where the previous *major occupancy* of the *building* or part of the *building* cannot be determined.

(2) For the purpose of this Article and Sentence 11.4.2.1.(1), the change of use set out in Clauses (1)(b) to (d) shall also be deemed to be a change in *major occupancy*.

(3) The *performance level* of an existing *building* is reduced where the early warning and evacuation systems requirements of other Parts of the Code for the proposed *major occupancy* exceed those of the existing *building*.

(4) The *performance level* of an existing *building* is reduced where the proposed *major occupancy* in the *building* is not separated from the adjoining *major occupancies* by *fire separations* having *fire-resistance ratings* conforming to Tables 3.1.3.1. and 11.4.3.4.B.

(5) The *performance level* of an existing *building* is reduced where the *occupancy* of all or part of an existing *building* of *combustible construction* is changed to a new *major occupancy* that would require the *building*, if it were a new *building*, to be *constructed* of *noncombustible construction*.

#### 11.4.2.4. Plumbing

(1) The *performance level* of an existing *building* is reduced where the existing *building* is extended or subject to material alteration or

repair, and *plumbing* in the existing *building* is adversely affected by the extension, alteration or repair.

#### 11.4.3. Compensating Construction

##### 11.4.3.1. General

(1) Where the *performance level* of an existing *building* is reduced under Subsection 11.4.2., compensating *construction* shall be carried out in accordance with this Subsection.

(2) Except as provided in Sentence (3) compensating *construction* required under this Subsection applies to the part of the *building* being altered and shall include

- (a) *fire separations*, with the required *fire-resistance ratings*, separating the part being altered from the *floor areas* immediately above and below and from the immediate adjacent areas, and
- (b) *access to exits* and *exits* from the *building*, where the alteration adversely affects the *exit* system of the *building*.

(3) Compensating *construction* required under this Subsection applies to the existing *building systems* that are adversely affected by the proposed *construction*.

##### 11.4.3.2. Structural

(1) Where the *performance level* of an existing *building* is reduced under Sentence 11.4.2.1.(1)

- (a) remedial measures shall be taken to support the proposed loads, or
- (b) the portion of the floor affected by the proposed loads shall be restricted to the loading it will support and signs stating the restrictions shall be posted.

##### 11.4.3.3. Increase in Occupant Load

(1) Where the *performance level* of an existing *building* is reduced under Sentences 11.4.2.2.(1), (2) or (3) the *building* shall be evaluated, and the early warning and evacuation systems shall be upgraded, in conformance with the applicable requirements of Table 11.4.3.3.

(2) Sentence (1) does not apply in a Group C *occupancy* where the new total *occupant load* is

- (a) 14 persons or less in a *boarding, lodging or rooming house*, except that where the *occupant load* is between 10 and 15 persons, an interconnected system of *smoke alarms* in corridors near stairways is required, or
- (b) 16 persons or less in a *building* containing residential *suites* which are *dwelling units*, except that where the *occupant load* is between 10 and 17 persons, an interconnected system of *smoke alarms* in corridors near stairways is required.

(3) Where the *performance level* of an existing *building* is reduced under Sentence 11.4.2.2.(1), additional *construction* shall be required in order that the *building* or part of the *building* subject to the increase in *occupant load* conforms to the requirements of Articles 3.7.4.2. and 9.31.1.1.

##### 11.4.3.4. Change in Major Occupancy

(1) Where the *performance level* of an existing *building* is reduced under Sentence 11.4.2.3.(1), additional upgrading shall be required in conformance with Table 11.4.3.4.A. and so that the *construction index* of the *building* is increased to at least equal the *hazard index* of the new *major occupancy* that the *building* is to support.



(2) Where the *performance level* of an existing building is reduced under Sentence 11.4.2.3.(1), additional *construction* shall be required in order that the building or part of the building subject to change of *major occupancy* conforms to the requirements of Subsection 3.2.6., Sections 3.7., 3.11., 9.5., and 9.7., Subsections 9.10.16., Sections 9.31. and 9.32., and Subsections 9.34.1., 9.34.2., and 9.34.3. as they apply to the new *major occupancy* that the building or part of the building is to support.

(3) Where the *performance level* of an existing building is reduced under Sentence 11.4.2.3.(3), the building shall be evaluated, and the early warning and evacuation systems shall be upgraded, in conformance with the applicable requirements of Table 11.4.3.3.

(4) Where the *performance level* of an existing building is reduced under Sentence 11.4.2.3.(4), upgrading of those systems shall be required in conformance with the applicable requirements of Article 3.1.3.1. and Table 11.4.3.4.B.

(5) Where the *performance level* is reduced under Sentence 11.4.2.3.(5) the requirement for *noncombustible construction* is satisfied if the building is *sprinklered*.

#### 11.4.3.5. Plumbing

(1) Where the *performance level* of an existing building is reduced under Sentence 11.4.2.4.(1), upgrading of *plumbing* in the existing building which is adversely affected by the extension, alteration or repair shall be required in conformance with Part 7.

### Section 11.5. Compliance Alternatives and Alternative Measures

#### 11.5.1. Compliance Alternatives

##### 11.5.1.1. Compliance Alternatives

(1) A *compliance alternative* shown in Tables 11.5.1.1.A., 11.5.1.1.B., 11.5.1.1.C., 11.5.1.1.D/E. or 11.5.1.1.F. may be substituted

for a requirement contained in Part 3, 4, 5, 6 or 7 where the *chief building official* is satisfied that compliance with the requirement is impracticable because

- (a) of structural or *construction* difficulties, or
- (b) it is detrimental to the preservation of a *heritage building*.

(2) A *compliance alternative* shown in Tables 11.5.1.1.A., 11.5.1.1.B., 11.5.1.1.C., 11.5.1.1.D/E. or 11.5.1.1.F. may be substituted for a requirement contained in Part 9 without satisfying the *chief building official* that compliance with the requirement is impracticable.

#### 11.5.2. Alternative Measures

##### 11.5.2.1. Alternative Measures

(1) An *alternative measure* may be utilized where the *chief building official* is satisfied that

- (a) compliance with the requirement of Part 3, 4, 5, 6, 7 or 9 of the Code or with the *compliance alternative*, as the case may be, is impracticable because

- (i) of structural or *construction* difficulties, or

- (ii) it is detrimental to the preservation of a *heritage building*, and

- (b) the *performance level* of the building after the use of the *alternative measure* shall not be less than the *performance level* of the building prior to *construction*.

Table 11.2.1.1.A.  
Construction Index  
Forming Part of Sentence 11.2.1.1.(1)

Fire-Resistance Rating			Type of Construction	C.I.(2)
Floors over Basement	Other Floors	Roof		
3 h	3 h	1.5 h	Noncombustible	8 (1)
2 h	2 h	1 h	Noncombustible	7
1 h	1 h	45 min	Noncombustible	6
45 min	45 min	0 h	Noncombustible	5
45 min	45 min	45 min	Heavy Timber	5
45 min	45 min	45 min	Combustible	5
45 min	0 h	0 h	Noncombustible	4
45 min	45 min	0 h	Combustible	4
30 min	0 h	0 h	Noncombustible	3
30 min	30 min	0 h	Combustible	3
0 h	30 min	0 h	Combustible	2
0 h	0 h	0 h	Combustible	1 (1)
Column 1	2	3	4	5

Notes to Table 11.2.1.1.A.:

(1) C.I. of 1 is lowest fire protection *performance level* and C.I. of 8 is highest.

(2) Take highest rating for C.I. from Table 11.2.1.1.A. for existing building.

Table 11.2.1.1.B.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group A Division 1	Occupancy H.I. <sup>(5)</sup>		
	Small	Medium	Large
Dinner Theatres	4	5	6
Live Theatres	4	5	6
Motion Picture Theatres	4	5	6
Opera Houses	4	5	6
Television Studios (With Audience)	4	5	6
Column 1	2	3	4

(1)  
(2)

## Notes to Table 11.2.1.1.B.:

(1)

Building Size (Maximum) <sup>(2) (3)</sup>	
– 300 occupant load maximum / 1 storey	Small
– 600 m <sup>2</sup> / 600 occupant load maximum / 1 storey with less than 40% 2 storey <sup>(6)</sup>	Medium
– Any area / not exceeding 18 m in building height	Large
– Over 18 m in building	H.I. = 7

(2) Sizes are based on *building area* and *building height*.(3) *Building* size is based on the existing *building* facing one *street*.(4) For existing *buildings* facing multiple *streets* see Sentence 11.2.1.1.(2) and Table 11.4.3.4.A.(5) Take lowest rating for H.I. from Table for *major occupancy* change.(6) *Building* may have less than 40% of its area as 2 storey for purposes as described in Clauses 3.2.2.21.(1)(b) and (c).

Table 11.2.1.1.C.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group A Division 2	Occupancy H.I. <sup>(5)</sup>		
	Small	Medium	Large
Art Galleries	3	4	6
Auditoria	3	4	6
Billiard Halls, Amusement Arcades	3	4	6
Bowling Alleys	3	4	6

(1)  
(2)

Churches	3	4	6
Clubs, Lodges (Non-Residential)	3	4	6
Community Halls	3	4	6
Concert Halls	3	4	6
Court Rooms	3	4	6
Dance Halls	3	4	6
Daycare Centres	3	4	6
Exhibition Halls (Without Sales)	3	4	6
Exhibition Halls (With Sales)	3	See Group E	
Gymnasias (Multi-Purpose)	3	4	6
Gymnasias (Athletic)	3	4	6
Lecture Halls	3	4	6
Libraries	3	4	6
Licensed Beverage Establishments	3	4	6
Licensed Clubs, Lodges	3	4	6
Museums	3	4	6
Passenger Stations/Depots	3	4	6
Public Heritage Buildings	3	–	–
Recreational Piers	3	4	6
Restaurants	3	4	6
School, Colleges	3	4	6
Undertaking Premises	3	4	6
Column 1	2	3	4

## Notes to Table 11.2.1.1.C.:

(1)

Building Size (Maximum) <sup>(2) (3)</sup>	
– 400 m <sup>2</sup> / 1 storey	Small
– 250 m <sup>2</sup> / 3 storey ( <i>Public Heritage Building</i> )	Small
– 800 m <sup>2</sup> / 2 storey	Medium
– Any area / not exceeding 18 m in building height	Large
– Over 18 m in building height	H.I. = 7

(2) Sizes are based on *building area* and *building height*.(3) *Building* size is based on the existing *building* facing one *street*.(4) For existing *buildings* facing multiple *streets* see Sentence 11.2.1.1.(2) and Table 11.4.3.4.A.(5) Take lowest rating for H.I. from Table for *major occupancy* change.(6) *Building* exceeding 3 storeys in *building height* and which are *combustible* shall be *sprinklered*.

Table 11.2.1.1.D.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group A Division 3	Occupancy H.I. <sup>(5)</sup>		
	Small	Medium	Large
Arenas (No Occupancy On Activity Surface)	3	4	6
Armouries (No Occupancy On Activity Surface)	3	4	6
Enclosed Stadia or Grandstand	3	4	6
Ice Rinks (No Occupancy On Activity Surface)	3	4	6
Indoor Swimming Pools	3	4	6
Column 1	2	3	4

(1)  
(2)

Notes to Table 11.2.1.1.D.:

(1)

Building Size (Maximum) <sup>(2) (3)</sup>	
- 1000 m <sup>2</sup> / 1 storey	Small
- 2000 m <sup>2</sup> / 2 storey	Medium
- Any area / not exceeding 18 m in building height	Large
- Over 18 m in building height	H.I. = 7

(2) Sizes are based on building area and building height.

(3) Building size is based on the existing building facing one street.

(4) For existing buildings facing multiple streets see Sentence 11.2.1.1.(2) and Table 11.4.3.4.A.

(5) Take lowest rating for H.I. from Table for major occupancy change.

Table 11.2.1.1.E.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group A Division 4	Occupancy H.I. <sup>(5)</sup>		
	Small	Medium	Large
Amusement Park Structures	2	3	5
Bleachers	1	3	5
Grandstands (Open)	1	3	5
Reviewing Stands	1	3	5
Stadia (Open)	1	3	5
Column 1	2	3	4

(1)  
(2)

Notes to Table 11.2.1.1.E.:

(1)

Building Size (Maximum) <sup>(2) (3)</sup>	
- 2500 occupant load max./min. limiting distance of 6 m (combustible)	Small
- 15,000 occupant load maximum (with roof at least ½ rating if combustible)	Medium
- Unlimited occupant load	Large

(2) Sizes are based on building area and building height.

(3) Building size is based on the existing building facing one street.

(4) For existing buildings facing multiple streets see Sentence 11.2.1.1.(2) and Table 11.4.3.4.A.

(5) Take lowest rating for H.I. from Table for major occupancy change.

Table 11.2.1.1.F.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group B Division 1	Occupancy H.I. <sup>(3)(5)</sup>		
	Small	Medium	Large
Detention Facilities (Minimum Security) <sup>(4)</sup>	4	5	6
Detention Facilities (All other types of security)	6	6	7
Police Station with Detention	3	—	—
Column 1	2	3	4

(1)  
(2)

Notes to Table 11.2.1.1.F.:

(1)

Building Size (Maximum) <sup>(2)</sup>	
- Any area / 1 storey	Small
- 600 m <sup>2</sup> / 1 storey (Police Station with Detention)	Small
- Any area (noncombustible) / 2 storey	Medium
- Any area (noncombustible); 500 m <sup>2</sup> (combustible) / 2 storey	Large
- Over 18 m in building height (noncombustible)	H.I. = 7
- Over 500 m <sup>2</sup> (combustible) / over 2 storey	H.I. = 7

(2) Sizes are based on building area and building height.

(3) When the size of a building falls into more than one category, the H.I. for the least restrictive is permitted to be used.

(4) Minimum security - means occupants free to exit building in a fire emergency.

(5) Detention occupancy with any H.I. shall be sprinklered.



Table 11.2.1.1.G.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group B Division 2	Occupancy H.I. <sup>(5)</sup> <sup>(7)</sup>		
	Small	Medium	Large
Hospital, Nursing home, Geriatric, Sanitorium <sup>(6)</sup> (Immobile)	4	5	7
Hospital, Nursing Home, Geriatric, Sanitorium <sup>(6)</sup> (Non-Ambulatory)	4	5	6
Hospital, Nursing Home, Geriatric, Sanitorium <sup>(6)</sup> (Ambulatory)	3	4	6
Psychiatric Hospitals (Maximum Confinement)	4	5	7
Psychiatric Hospitals (Minimum Confinement)	3	4	6
Police Station With Detention	3	3	—
Column 1	2	3	4

## Notes to Table 11.2.1.1.G.:

(1)

Building Size (Maximum) <sup>(2)(3)</sup>	
– 250 m <sup>2</sup> / 1 storey	Small
– 600 m <sup>2</sup> / 1 storey (Police Station with Detention)	Small
– 500 m <sup>2</sup> / 2 storey; 1000 m <sup>2</sup> / 1 storey	Medium
– Any area (noncombustible); 500 m <sup>2</sup> (combustible) / 2 storey	Medium
– Any area /not exceeding 18 m in building height	Large
– Over 18 m in building height	H.I. = 7

(2) Sizes are based on *building area* and *building height*.(3) *Building* size is based on the existing *building* facing one *street*.(4) For existing *buildings* facing multiple *streets* see Sentence 11.2.1.1.(2) and Table 11.4.3.4.A.(5) When the *size* of a *building* falls into more than one category, the H.I. for the least restrictive is permitted to be used.

(6) Immobile-means patients attached to life support systems and cannot be moved. Non-Ambulatory-means patients confined to bed and require transportation. Ambulatory-means patients may walk on their own.

(7) *Care and treatment occupancy* with any H.I. shall be *sprinklered*.

Table 11.2.1.1.H.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group B Division 3	Occupancy H.I. <sup>(4)(5)</sup>		
	Small	Medium	Large
Residential care facilities (Ambulatory)	3	4	6
(Non-Ambulatory)	4	5	6
Children Custodial Homes	3	4	6
Convalescent Homes (Ambulatory)	3	4	6
(Non-Ambulatory)	4	5	6
Orphanages	3	4	6
Sanatoria Without Detention Quarter (Min. Confinement)	3	4	6
(Max. Confinement)	4	5	6
Group Homes For Developmentally Handicapped Residents (Min. Confinement)	3	4	6
(Max. Confinement)	4	5	6
Column 1	2	3	4

## Notes to Table 11.2.1.1.H.:

(1)

Building Size (Maximum) <sup>(2)(3)</sup>	
– 600 m <sup>2</sup> / 1 storey	Small
– 500 m <sup>2</sup> / 2 storey; 1000 m <sup>2</sup> / 1 storey	Medium
– Any area /not exceeding 18 m in building height	Large
– Over 18 m in building height	H.I. = 7

(2) Sizes are based on *building area* and *building height*.(3) *Building* sizes is based on the existing *building* facing one *street*.(4) When the *size* of a *building* falls into more than one category, the H.I. for the least restrictive is permitted to be used.(5) *Care occupancy* with any H.I. shall be *sprinklered*.

Table 11.2.1.1.I.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group C	Occupancy H.I. <sup>(4)</sup>			(1) (2)
	Small	Medium	Large	
Apartments	3	4	6	
Boarding Houses/Group Homes	3	—	—	
Clubs, Residential	3	4	6	
Colleges, Residential	3	4	6	
Convents	3	4	6	
Dormitories/Hostels	3	4	6	
Hotels	3	5	6	
Houses, S.F.	2	2	—	
Live / Work Units	4	5	7	
Lodging Houses	3	—	—	
Monasteries	3	4	6	
Public Heritage Buildings	3	—	—	
Rectories	2	—	—	
Retirement Homes	3	4	6	
Rooming Houses	3	—	—	
Schools, Residential	3	4	6	
Column 1	2	3	4	

## Notes to Table 11.2.1.1.I.:

(1)

Building Size (Maximum) <sup>(2)(3)</sup>	
— 600 m <sup>2</sup> / 3 storey	Small
— 250 m <sup>2</sup> / 3 storey (Public Heritage Building)	Small
— 2000 m <sup>2</sup> / not exceeding 6 storeys	Medium
— Any area / not exceeding 36 m in building height	Large
— Over 36 m in building height	H.I. = 7
— Hotels over 18 m high, measured between grade and the floor level of the top storey	H.I. = 7

(2) Sizes are based on building area and building height.

(3) Building exceeding 3 storeys in building height and which are combustible shall be sprinklered.

(4) Take lowest rating for H.I. from Table for major occupancy change.

Table 11.2.1.1.J.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group D	Occupancy H.I. <sup>(5)</sup>			(1) (2)
	Small 1	Medium	Large	
Advertising and Sales Offices	3	3	5	
Automatic Bank Deposit	3	4	5	
Barber/Hairdresser Shops	3	4	5	
Beauty Parlours	3	4	5	
Branch Banks	3	4	5	
Car Rental Premises	3	3	5	
Chiropractic Offices	3	4	5	
Communications Offices (Telephone E.)	3	4	5	
Communications Offices (Telex)	3	4	5	
Communications Offices (Courier)	3	3	5	
Computer Centres	3	4	5	
Construction Offices	3	3	5	
Costume Rental Premises	3	4	5	
Dental Offices (Denture Clinic)	3	4	5	
Dental Offices (General)	3	4	5	
Dental Offices (Surgical/Anaesthesia)	4	5	6	
Dry Cleaning Depots	3	4	5	
Dry Cleaning Premises (Self-Serve)	4	4	5	
Health/Fitness Clubs	3	4	5	
Laundries (Self-Serve)	4	4	5	
Massage Parlours	3	4	5	
Medical Offices (Examination)	3	4	5	
Medical Offices (Surgical/Anaesthesia)	4	5	6	
Offices (Business)	3	3	5	
Offices (Charitable)	3	3	5	
Offices (Legal/Accounting)	3	3	5	
Offices/Studios (Design)	3	4	5	
Pharmacy Offices	3	4	5	
Photographic Studios	3	4	5	
Physiotherapy Offices	3	4	5	
Police Stations (No Detention)	3	4	5	
Printing and Duplicating	4	5	6	

Public Heritage Buildings	3	—	—
Public Saunas	3	4	5
Radio Stations (No Audience)	3	4	5
Small Tool Rental Premises	3	4	5
Suntan Parlours	3	4	5
Veterinary Offices	3	4	5
Column 1	2	3	4

**Notes to Table 11.2.1.1.J.:**

(1)

Building Size (Maximum) <sup>(2)</sup> <sup>(3)</sup>	
— 800 m <sup>2</sup> / 2 storey	Small
— 250 m <sup>2</sup> / 3 storey (Public Heritage Building)	Small
— 1600 m <sup>2</sup> / 3 storey	Medium
— Any area / not exceeding 18 m in building height	Large
— Over 18 m, but not exceeding 36 m in building height	H.I. = 6
— Over 36 m in building height	H.I. = 7

(2) Sizes are based on *building area* and *building height*.(3) *Building size* is based on the existing *building* facing one *street*.(4) For existing *buildings* facing multiple *streets* see Sentence 11.2.1.1.(2) and Table 11.4.3.4.A.(5) When the size of a *building* falls into more than one category, the H.I. for the least restrictive is permitted to be used.**Table 11.2.1.1.K.****Hazard Index**

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group E	Occupancy H.I. <sup>(5)</sup>		
	Small	Medium	Large
Automotive/Hardware Department Stores	4	5	7
China Shops	3	4	6
Department Stores	4	5	7
Electrical Stores (Fixtures)	3	3	5
Exhibition Halls (With Sales)	4	5	7
"Fast Food" Outlets	3	4	5
Feed And Seed Stores	4	5	7
Flea Markets	4	5	7
Flower Shops	3	4	6

(1)

(2)

"Food" and Vegetable Markets	3	4	6
Garden Shops	3	4	6
"Gas" Bars	4	5	7
Gift Shops	3	4	6
Home Improvement Stores	4	5	7
Kitchen/Bathroom Cupboards Stores	3	4	6
Plumbing Stores (Fixtures/Accessories)	3	3	5
"Pop" Shops	3	4	6
Public Heritage Buildings	3	—	—
Rentals (See "D")	—	—	—
Restaurants (Not More Than 30 Persons)	3	4	5
Shopping Malls	4	5	7
Stationary/Office Supply Stores	3	4	6
Stores (Art)	3	4	6
Stores (Baked Goods)	3	4	6
Stores (Beer)	3	4	6
Stores (Book)	3	4	6
Stores (Camera)	3	4	6
Stores (Candy)	3	4	6
Stores (Clothing)	3	4	6
Stores (Drugs)	4	4	6
Stores (Electronic)	3	4	6
Stores (Floor Coverings)	4	5	7
Stores (Food)	3	3	6
Stores (Furniture/Appliances)	3	4	6
Stores (Hardware)	4	5	7
Stores (Health)	4	4	6
Stores (Hobby)	3	4	6
Stores (Jewellery)	3	3	5
Stores (Paint/Wallpaper)	4	5	7
Stores (Pet)	3	4	6
Stores (Records/Tapes)	3	4	6
Stores (Spirits)	4	5	7
Stores (Toys)	4	5	7
Stores (Variety)	4	4	6
Stores (Video Sales/Rental)	3	4	6
Supermarkets	3	4	6
Column 1	2	3	4



## Notes to Table 11.2.1.1.K.:

(1)

Building Size (Maximum) (2) (3)	
- 600 m <sup>2</sup> / 2 storey	Small
- 250 m <sup>2</sup> / 3 storey (Public Heritage Building)	Small
- 800 m <sup>2</sup> / 3 storey	Medium
- Any area / up to 18 m in building height	Large
- Over 18 m in building height	H.I. = 7

(2) Sizes are based on building area and building height.

(3) Building size is based on the existing building facing one street.

(4) For existing buildings facing multiple streets see Sentence 11.2.1.1.(2) and Table 11.4.3.4.A.

(5) When the size of a building falls into more than one category, the H.I. for the least restrictive is permitted to be used.

(6) All buildings 1,500 m<sup>2</sup> and over are to be sprinklered.

Table 11.2.1.1.L.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group F Division 1	Occupancy H.I. (3)			(1) (2)
	Small	Medium	Large	
Ammunition Manufacturing and Storage	3	6	8	
Black Powder Manufacturing and Storage	3	6	8	
Bulk Plants for Flammable Liquids	3	6	8	
Bulk Storage Warehouse (Hazardous Substances)	3	6	8	
Cereal and Feed Mills	3	6	8	
Chemical Manufacturing/Processing Plant	3	6	8	
Distilleries	3	6	8	
Dry Cleaning Plants (Flammable)	3	6	8	
Explosives Manufacturing and Storage	3	6	8	
Fertilizer Manufacturing Plants	3	6	8	
Fireworks Manufacturing and Storage	3	6	8	
Flour Mills	3	6	8	
Gas (Flammable) Compressor Stations	3	6	8	
Gas (Flammable) Manufacturing and Storage	3	6	8	
Grain Elevators	3	6	8	
Lacquer Factories	3	6	8	
Loading Areas (for all Group F, Division 1)	3	6	8	

Mattress Factories (High Fire Load)	3	6	8
Paint/Varnish/Pyroxylin Factories	3	6	8
Petrochemical Plants	3	6	8
Refineries	3	6	8
Rubber Processing Plants	3	6	8
Spray Painting Operations	3	6	8
Waste Paper Processing Plants (Dry)	3	6	8
Column 1	2	3	4

## Notes to Table 11.2.1.1.L.:

(1)

Building Size (Maximum) (2)	
- 400 m <sup>2</sup> / 2 storey	Small
- 600 m <sup>2</sup> / 4 storey	Medium
- 1500 m <sup>2</sup> / 4 storey	Large

(2) Sizes are based on building area and building height.

(3) When the size of a building falls into more than one category, the H.I. for the least restrictive is permitted to be used.

(4) All buildings 1,500 m<sup>2</sup> and over are to be sprinklered.

(5) All floor assemblies shall be fire separations.

Table 11.2.1.1.M.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group F Division 2	Occupancy H.I. (5)			(1) (2)
	Small	Medium	Large	
Aircraft Hangars	3	5	6	
Abattoirs	3	4	5	
Bakeries	3	5	6	
Body Shops	3	5	6	
Candy Plants	3	4	5	
COLD STORAGE PLANTS				
Combustible Insulation				
Flammable Refrigerant				
Combustible Packaging	3	5	7	
Combustible Insulation				
Flammable Refrigerant				
Noncombustible Packaging	3	5	6	
Combustible Insulation				
Non-Flammable Refrigerant				
Noncombustible Packaging	3	4	5	
Noncombustible Insulation				
Non-Flammable Refrigerant				
Noncombustible Packaging	2	3	4	
Dry Cleaning Establishments (non-flammable or non-explosive)	3	4	5	

Electrical Substations	3	4	5
Factories (High Fire Load)	3	5	6
Freight Depots (High Fire Load)	3	5	6
Helicopter Landings (on roof)	3	4	5
Laboratories (High Fire Load)	3	5	6
Laundries (not self-serve)	3	4	5
Manufacturer Sales (High Fire Load)	3	5	6
Mattress Factories	3	4	5
Meat Packing Plants	3	4	5
Packaging Manufacturers (Cellulose)	3	4	5
Packaging Manufacturers (Noncombustible)	2	3	4
Packaging Manufacturers (Plastics)	3	5	6
Paper Processing Plants (Wet)	3	5	6
Planing Mills	3	5	6
Printing Plants	3	4	5
Public Heritage Buildings	3	3	—
Repair Garages	3	5	6
Sample Display Rooms (High Fire Load)	3	5	6
Self-Service Storage Buildings	3	4	5
Service Stations (no spray painting)	3	5	6
Storage Rooms (High Fire Load)	3	5	6
Television Studios (no audience)	3	4	5
Tire Storage	3	5	6
Warehouses (High Fire Load)	3	5	6
Welding Shops	3	5	6
Wholesale Rooms (High Fire Load)	3	5	6
Wood Working Factories	3	5	6
Workshops (High Fire Load)	3	5	6
Column 1	2	3	4

## Notes to Table 11.2.1.1.M.:

(1)

Building Size (Maximum) <sup>(2)(3)</sup>	
— 600 m <sup>2</sup> / 2 storey	Small
— 800 m <sup>2</sup> / 4 storey	Medium
— 600 m <sup>2</sup> / 3 storey ( <i>Public Heritage Building</i> )	Medium
— 1500 m <sup>2</sup> / 6 storey not exceeding 18 m in building height	Large
— Over 18 m in building height	H.I. = 7

(2) Sizes are based on *building area* and *building height*.(3) *Building* size is based on the existing *building* facing one *street*.(4) For existing *buildings* facing multiple *streets* see Sentence 11.2.1.1.(2) and Table 11.4.3.4.A.(5) When the size of a *building* falls into more than one category, the H.I. for the least restrictive is permitted to be used.(6) All *buildings* 1,500 m<sup>2</sup> and over are to be *sprinklered*.

Table 11.2.1.1.N.

## Hazard Index

Forming Part of Sentences 11.2.1.1.(1) and (2)

Group F Division 3	Occupancy H.I. <sup>(5)</sup>			(1) (2)
	Small	Medium	Large	
Creameries	2	2	3	
Factories (Low Fire Load)	2	3	4	
Freight Depots (Low Fire Load)	2	3	4	
Laboratories (Low Fire Load)	2	3	4	
Manufacturers Sales (Low Fire Load)	2	3	4	
Power Plants	3	4	5	
Public Heritage Buildings	3	3	—	
Sample Display Rooms (Low Fire Load)	2	3	4	
Storage Garages	2	3	4	
Storage Rooms (Low Fire Load)	2	3	4	
Warehouses (Low Fire Load)	2	3	4	
Wholesale Rooms (Low Fire Load)	2	3	4	
Workshops (Low Fire Load)	2	3	4	
Column 1	2	3	4	

**Notes to Table 11.2.1.1.N.:**

(1)

Building Size (Maximum) (2) (3)	
– 800 m <sup>2</sup> / 2 storey	Small
– 1200 m <sup>2</sup> / 4 storey	Medium
– 600 m <sup>2</sup> / 3 storey (Public Heritage Building)	Medium
– Any area / 6 storey not exceeding 18 m in building height	Large
– Over 18 m, but not exceeding 36 m in building height	H.I. = 5
– Over 36 m in building height	H.I. = 6

(2) Sizes are based on *building area* and *building height*.(3) *Building* size is based on the existing *building* facing one *street*.(4) For existing *buildings* facing multiple *streets* see Sentence 11.2.1.1.(2) and Table 11.4.3.4.A.(5) When the size of a *building* falls into more than one category, the H.I. for the least restrictive is permitted to be used.**Table 11.4.3.3.****For Evaluation and Upgrading of Early Warning/Evacuation**

Forming Part of Sentences 11.4.3.3.(1) and (2)

Notes	EW/EVAC, Evaluation and Upgrading	Part 11 Compliance Alternative (1)
(2)	<p>Early Warning and Evaluation to be checked against</p> <p>(a) <i>access to exit</i> widths based on <i>occupant load</i> in Subsection 3.3.1. or 9.9.3.;</p> <p>(b) <i>exit</i> widths based on <i>occupant load</i> in Subsection 3.4.3. or 9.9.3.;</p> <p>(c) <i>exit</i> signs in Subsection 3.4.5. or 9.9.10.;</p> <p>(d) lighting of <i>exits</i>, lighting of <i>access to exits</i> and emergency lighting in Subsection in Subsection 3.2.7. or 9.9.11.;</p> <p>(e) fire alarm system in Subsection 3.2.4. or 9.10.17.;</p> <p>(f) <i>smoke alarms</i> in Subsection 9.10.18.; and</p> <p>(g) travel distance and number of <i>exits</i> in other Parts of the Code,</p> <p>and deficiencies shall be upgraded.</p>	<p><b>EARLY WARNING</b></p> <p>(a) <i>Compliance alternatives</i> as listed may be used.</p> <p><b>EVACUATION</b></p> <p>(b) <i>Compliance alternatives</i> as listed to <i>access to exit</i> and <i>exit</i> widths, number of <i>exits</i>, and travel distance may be used.</p>
(3)	<p>Early Warning and Evaluation to be checked against</p> <p>(a) <i>access to exit</i> widths based on <i>occupant load</i> in Subsection 3.3.1. or 9.9.3.;</p> <p>(b) <i>exit</i> widths based on <i>occupant load</i> in Subsection 3.4.3. or 9.9.3.;</p> <p>(c) <i>exit</i> signs in Subsection 3.4.5. or 9.9.10.;</p> <p>(d) lighting of <i>exits</i>, lighting of <i>access to exits</i> and emergency lighting in Subsection in Subsection 3.2.7. or 9.9.11.;</p> <p>(e) fire alarm system in Subsection 3.2.4. or 9.10.17.;</p> <p>(f) <i>smoke alarms</i> in Subsection 9.10.18.;</p> <p>(g) travel distance and number of <i>exits</i> in other Parts of the Code; and</p> <p>(h) <i>smoke control</i> measures, and at least one elevator to permit transport of firefighters to all floors in hotels whose floor level is more than 18 m high measured between <i>grade</i> and floor level of the top <i>storey</i> as per Subsection 3.2.6.</p> <p>and deficiencies shall be upgraded.</p>	<p><b>EARLY WARNING</b></p> <p>(a) <i>Compliance alternatives</i> as listed may be used.</p> <p><b>EVACUATION</b></p> <p>(b) <i>Compliance alternatives</i> as listed to <i>access to exit</i> and <i>exit</i> widths, number of <i>exits</i>, and travel distance may be used.</p>
Column 1	2	3

**Notes to Table 11.4.3.3.:**(1) See Table 11.5.1.1.A., 11.5.1.1.B., 11.5.1.1.C., 11.5.1.1.D/E. And 11.5.1.1.F. for *Compliance alternatives* that may be used.(2) Applies to change of *major occupancy* to one of equal or lesser hazard.(3) Applies to change of *major occupancy* to one of greater hazard, and to increase in *occupant load* greater than 15%.



Table 11.4.3.4.A.

## Additional Upgrading

Forming Part of Sentence 11.4.3.4.(1)

New Major Occupancy (H.I.) Number <sup>(3)</sup>	Increase of C.I. to Equal H.I. to Support New Major Occupancy	Additional Required Upgrading	Part 11 Alternative Compliance	Comments
H.I.2	C.I. 1 to 2	Comply with Table 11.2.1.1.A. ratings for C.I. of 2	(a) Provide Early Warning system or (b) Comply with any A.C.'s in Col. 4.	
H.I.3	C.I. (1 or 2) to 3	Comply with Table 11.2.1.1.A. ratings for C.I. of 3	(a) Provide Early Warning system or (b) Comply with any A.C.'s in Col. 4.	<i>Combustible to Combustible only.</i>
H.I.4	C.I. (1,2 or 3) to 4	Comply with Table 11.2.1.1.A. ratings for C.I. of 4	Provide sprinklers in locations where assemblies do not comply with Table 11.2.1.1.A.	<i>Combustible to Combustible. Noncombustible to Noncombustible.</i>
H.I.5	C.I. 4 to 5	Comply with Table 11.2.1.1.A. ratings for C.I. of 5	Provide sprinklers in locations where assemblies do not comply with Table 11.2.1.1.A.	
H.I.5	C.I. (1,2 or 3) to 5	Comply with Table 11.2.1.1.A. ratings for C.I. of 5	Provide sprinklers in locations where assemblies do not comply with Table 11.2.1.1.A.	<i>Combustible to Combustible. Noncombustible to Noncombustible.</i>
H.I.6	C.I. 5 ( <i>Noncombustible</i> ) to 6	Comply with Table 11.2.1.1.A. ratings for C.I. of 6	(a) Provide sprinkler system, plus 45 min roof rating.	
H.I.6	C.I. 5 ( <i>Heavy timber</i> ) to 6	Comply with A.C.	(b) Provide sprinkler system.	
H.I.6	C.I. 5 ( <i>Combustible</i> ) to 6	Comply with A.C.	(c) Provide 1 h rating plus sprinkler system.	
H.I.6	C.I. (3 or 4) to 6*	Comply with Table 11.2.1.1.A. ratings for C.I. of 6	(d) Provide sprinkler system, plus 45 min rating.	<i>*For Noncombustible construction only.</i>
H.I.6	C.I. (1, 2, 3 or 4) to 6**	Comply with A.C.	(e) Provide 1 h rating plus sprinkler system.	<i>**For Combustible construction only.</i>
H.I.7	C.I. 6 to 7	Comply with Table 11.2.1.1.A. ratings for C.I. of 7	(a) Provide sprinkler system.	
H.I.7	C.I. (3, 4 or 5) to 7*	Comply with Table 11.2.1.1.A. ratings for C.I. of 7	(b) Provide 1 h rating plus sprinkler system.	<i>*For Noncombustible construction only.</i>
H.I.8	C.I. 7 to 8	Comply with Table 11.2.1.1.A. ratings for C.I. of 8	(a) Provide sprinkler system.	
H.I.8	C.I. 6 to 8	Comply with Table 11.2.1.1.A. ratings for C.I. of 8	(b) Provide supervised sprinkler system.	
H.I.8	C.I. (3, 4 or 5) to 8*	Comply with Table 11.2.1.1.A. ratings for C.I. of 8	(d) Provide sprinkler system, plus 1 h rating.	<i>*For Noncombustible construction only.</i>
Column 1	2	3	4	5

## Note to Table 11.4.3.4.A.:

(1) One asterisk (\*) refers to *Noncombustible construction*.(2) Two asterisks (\*\*) refers to *Combustible construction*.

(3) Group B, occupancy with any H.I. shall be sprinklered.

Table 11.4.3.4.B.(1)

## Additional Upgrading for Multiple Major Occupancies

Forming Part of Sentences 11.4.2.3.(4) and 11.4.3.4.(3)

New Major Occupancy	Code Requirements	Part 11 Compliance Alternative	
All <sup>(2)</sup>	Table 3.1.3.1. and Subsection 9.10.9 Where: 1 h rating required 2 h rating required 3 h rating required	For Existing Building Reduce to 45 min 1.5 h 2 h	If Sprinklered Reduce to 30 min 1 h 1.5 h
Column 1	2	3	

## Notes to Table 11.4.3.4.B.:

- (1) For buildings with multiple *major occupancies* only, where there is a change in *major occupancy*.  
 (2) See Section 11.4.

Table 11.5.1.1.A.

## Compliance Alternatives for Assembly Occupancies

Forming Part of Article 11.5.1.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A1	3.1.4.6.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of member sizes listed in Part 3.
A2	3.1.5.2.; 3.1.5.3.; 3.1.5.4.; 3.1.5.6.	Existing acceptable.
A3	3.1.5.7.; 3.1.5.8.; 3.1.5.9.; 3.1.5.10.	Except for exposed foamed plastics, existing acceptable. To match existing, materials may be added from on or off site.
A4	3.1.5.14.; 3.1.5.15. 3.1.5.20.; 3.1.5.16.; 3.1.5.22.	Existing acceptable.
A5	3.1.7.1.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
A6	3.1.7.5.(3)	Existing assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
A7	3.1.8.5.(2)	<ol style="list-style-type: none"> <li>(a) Existing functional and sound doors in existing <i>buildings</i> that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min,</li> <li>(b) all existing functional and sound hollow metal or kalamein doors which carry existing 1.5 h labels are acceptable in lieu of current 1.5 h labels and may contain wired glass panels not exceeding 0.0645 m<sup>2</sup>, at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and</li> <li>(c) every fire door, window assembly or glass block used as a <i>closure</i> in a required <i>fire separation</i> shall be installed in conformance with good engineering practice.</li> </ol>
A8	3.1.8.7.; 3.1.8.8.; 3.1.8.9.	<i>Fire dampers</i> or <i>fire stop flaps</i> are not required to be installed in existing ducts at penetrations of existing <i>fire separations</i> .
A9	3.1.8.10.(1)	Existing 45 mm solid core wood doors acceptable.
A10	3.1.8.10.(1)	Existing functionally operable self-closing devices acceptable.
A11	3.1.8.13.	Existing functionally operable latching devices, excluding draw bolts, are acceptable.
Col. 1	2	3

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A12	3.1.8.14.	Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass at least 6 mm thick is securely fixed to a steel frame with steel stops. Operable transoms shall be fixed closed.
A13	3.1.8.15.; 3.1.8.16., 3.1.8.17.	Existing acceptable.
A14	3.1.11.	Where the concealed space is being materially altered, smoke or heat detection in that space in lieu of firestops and tied into fire alarm system is acceptable.
A15	3.1.13.10.	Existing acceptable.
A16	3.2.2.17.(1)(b)and (c)	Existing sprinkler systems need not comply.
A17	3.2.3.	Existing windows.  (a) Existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i> , lies not closer than 300 mm from a window in such other <i>building</i> , where the "opposite" window is less than 2 400 mm from the opposite new opening, and  (b) Except relocation of units, shall be restricted to the same <i>fire compartment</i> and shall conform to the requirements of Articles 3.2.3.13. or 9.10.12.4. where applicable, or  (c) Where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i> , such existing openings are allowed to be relocated provided:  (i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or  (ii) the <i>building</i> is <i>sprinklered</i> .
A18	3.2.4.	(a) Existing fire alarm system may remain except that Article 3.2.4.5. does not apply where the "Fire Safety Plan" (as described in Subsection 2.8.2. of the Ontario Fire Code) for the <i>building</i> addresses the intent of Subsection 3.2.4. (i.e., "stage" system, electrical supervision, detection as required, Fire Department connection and emergency power supply), and  (b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.
A19	3.2.5.3.(1) and (2)	Existing acceptable.
A20	3.2.5.5.; 3.2.5.6.;3.2.5.4.	Existing acceptable provided the building is sprinklered.
A21	3.2.5.7.	Does not apply, except where a change in <i>major occupancy</i> occurs from a lesser <i>hazard index</i> .
A22	3.2.5.13.	Existing sprinkler systems in existing <i>buildings</i> that do not conform to NFPA 13 may be altered, added to, or extended from the existing system without complying with NFPA 13, provided the system is operational and adequate with respect to coverage, water supply and controls, and provided the system is evaluated by a qualified designer.
A23	3.2.6. Additional requirements for high buildings	Reserved
A24	3.2.9.	(a) Does not apply to <i>buildings</i> 6 storeys and less.  (b) Does not apply to <i>sprinklered buildings</i> .
A25	3.3.1.5.	One egress door is allowed where the <i>occupant load</i> is not greater than 100 persons, provided <i>floor area</i> is <i>sprinklered</i> and travel distance does not exceed 25 m.
A26	3.3.1.9.	Existing width of <i>public corridors</i> of not less than 914 mm is acceptable.
A27	3.3.1.9.(8)	An existing dead-end corridor is permitted where the <i>occupant load</i> is not greater than 20 persons, provided travel distance is not greater than 6 m plus corridor width to "exit choice" point.
A28	3.3.1.10.; 3.3.1.11.	Existing door swings may remain in <i>heritage buildings</i> , existing or being restored, with no change in <i>major occupancy</i> and with <i>occupant load</i> no greater than 100.
Col. 1	2	3



NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A29	3.3.1.12.	Existing doors may remain in a <i>heritage building</i> , existing or being restored, with no change in <i>major occupancy</i> .
A30	3.3.1.18.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
A31	3.3.2.12.	Reserved
A32	3.3.5.4.(1); 3.3.5.7.(1) to (3)	Need not comply where a gasketed door and self closer are provided in the existing <i>fire separation</i> .
A33	3.4.1.5. (1)	Existing acceptable.
A34	3.4.1.5.(2)	Existing acceptable provided the existing guard is not less than 914 mm.
A35	3.4.1.8.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
A36	3.4.2.5.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> and where there is no change in <i>major occupancy</i> .
A37	3.4.3.1.(2)	Existing width of <i>exits</i> acceptable provided the occupant load is not more than 15% above the exit capacity.
A38	3.4.3.3.(1)	Need not comply where there is no increase in <i>occupant load</i> .
A39	3.4.3.5.	Existing acceptable.
A40	3.4.3.6.	Existing headroom clearance of not less than 1 980 mm is acceptable.
A41	3.4.4.4.(7)	Existing washrooms opening directly into an <i>exit</i> stairwell shall be separated from the <i>exit</i> stairwell by a 45 min <i>closure</i> .
A42	3.4.5.1.(2) and (7)	Existing illuminated legible <i>exit</i> signs are acceptable.
A43	3.4.6.2.	Existing acceptable, if visually apparent.
A44	3.4.6.3.	Existing acceptable.
A45	3.4.6.4.(2) to (8)	Existing acceptable.
A46	3.4.6.5.(2), (4) and (5)	Existing acceptable.
A47	3.4.6.6.(1)	Existing acceptable.
A48	3.4.6.7.; 3.4.6.8.	Existing acceptable.
A49	3.4.6.10.(1), (2) and (4)	Existing acceptable.
A50	3.4.6.11.	Existing acceptable in <i>public heritage buildings</i> or a change in <i>occupancy</i> with no increase in <i>occupant load</i> .
A51	3.4.6.15.(2) and (3)	Existing functionally operable panic hardware acceptable.
A52	3.4.7.2.	<i>Combustible</i> fire escapes which are protected from fire in accordance with Sentence 3.2.3.13.(2) are permitted or may be reconstructed or recreated (as in the case of a <i>heritage building</i> ).
A53	3.5.1.	Existing acceptable.
A54	3.6.2.1.(5)	Existing <i>fire separation</i> of not less than 30 min is acceptable.
A55	3.6.2.3.	Existing acceptable where explosion-resistant <i>construction</i> or venting is provided.
A56	3.6.2.7.	Existing acceptable.
A57	3.6.2.8.(1)	2 h <i>fire separation</i> acceptable.
A58	3.6.3.1.(1) to (5)	45 min <i>fire separation</i> acceptable.
A59	3.6.3.3.(1) to (5) and (8)	Existing acceptable.
A60	3.6.3.3.(9)	1 h if <i>sprinklered</i> .
A61	3.6.3.3.(10)	Existing acceptable.
A62	3.6.3.4.	Existing acceptable.
A63	3.6.4.	Existing acceptable.
A64	3.7.1.3.(3)	2.1.m is acceptable.
Col. 1	2	3

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A65	3.7.2.1.(3)	The minimum glass areas may be reduced by 50%.
A66	3.7.4.2.	Where the <i>occupant load</i> is increased by more than 15% above the capacity of the existing facilities, facilities to be added to accommodate the increase.
Col. 1	2	3

NUMBER	PART 4 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
A67	4.1.9.	The requirements under this Subsection do not apply.
Col. 1	2	3

Table 11.5.1.1.B.

## Compliance Alternatives for Care or Detention Occupancies

Forming Part of Article 11.5.1.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B1	3.1.5.2.; 3.1.5.3.; 3.1.5.4.; 3.1.5.6.	Existing acceptable.
B2	3.1.5.7.; 3.1.5.8.; 3.1.5.9.; 3.1.5.10.	Except for exposed foamed plastics, existing acceptable.
B3	3.1.5.13.; 3.1.5.14.; 3.1.5.15.; 3.1.5.16.; 3.1.5.20.; 3.1.5.22.	Existing acceptable.
B4	3.1.7.1.	<p><i>Fire-resistance ratings</i> may also be used where they are based on:</p> <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
B5	3.1.7.5.(3)	Existing assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
B6	3.1.8.5.(2)	<ol style="list-style-type: none"> <li>(a) Existing functional and sound doors in existing <i>buildings</i> that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min,</li> <li>(b) all existing functional and sound hollow metal or kalamein doors which carry existing 1.5 h labels are acceptable in lieu of current 1.5 h labels and may contain wired glass panels not exceeding 0.0645 m<sup>2</sup>, at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and</li> <li>(c) every fire door, window assembly or glass block used as a <i>closure</i> in a required <i>fire separation</i> shall be installed in conformance with good engineering practice.</li> </ol>
B7	3.1.8.7.; 3.1.8.8.; 3.1.8.9.	<i>Fire dampers</i> or <i>fire stop flaps</i> are not required to be installed in existing ducts at penetrations of existing <i>fire separations</i> .
B8	3.1.8.10.(1)	For existing unlabelled doors in existing <i>buildings</i> , at least 45 mm solid core wood or metal clad are acceptable.
B9	3.1.8.11.(1)	Existing functionally operable self-closing devices acceptable, including devices with "pause" hardware.
B10	3.1.8.12.(1) and (2)	Between patient or inmate rooms, and corridors, existing "pause" type self-closing devices may be used as hold-open devices where functionally operable.
B11	3.1.8.13.	Existing functionally operable latching devices, excluding draw bolts, are acceptable.
B12	3.1.8.14.(1) and (2)	Except in zone or <i>exit fire separations</i> not required to be greater than 1 h, existing wired glass installations may be acceptable provided they are set in steel or metal-clad frames.
B13	3.1.8.14.(3)	Existing glass block acceptable.
Col. 1	2	3

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B14	3.1.8.15.; 3.1.8.16.; 3.1.8.17.	Existing acceptable.
B15	3.1.9.5.(1) and (2)	Existing openings in existing ceiling membranes to remain. Existing openings may be moved to another location in the same ceiling provided the aggregate area of openings does not increase and are not cumulative, and the existing opening is blocked up to provide the same rating as the ceiling assembly.
B16	3.1.11.	Where the concealed space is being materially altered, provide smoke or heat detection in that space in lieu of firestops and tie into fire alarm system.
B17	3.1.14.; 3.1.15.	Existing roof assemblies and roof coverings acceptable.
B18	3.2.3.	Existing windows <ul style="list-style-type: none"> <li>(a) Existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i>, lies no closer than 300 mm from a window in such other <i>building</i>, where the "opposite" window is less than 2 400 mm from the opposite new opening, and</li> <li>(b) except relocation of units, to be restricted to the same <i>fire compartment</i> and shall conform to the requirements of Articles 3.2.3.13. or 9.10.12.4. where applicable, or</li> <li>(c) where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be relocated provided: <ul style="list-style-type: none"> <li>(i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or</li> <li>(ii) the <i>building</i> is <i>sprinklered</i>.</li> </ul> </li> </ul>
B19	3.2.4.	<ul style="list-style-type: none"> <li>(a) Existing fire alarm system may remain except that Article 3.2.4.5. does not apply where the "Fire Safety Plan" (as described in Subsection 2.8.2. of the Ontario Fire Code) for the <i>building</i> addresses the intent of Subsection 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and</li> <li>(b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.</li> </ul>
B20	3.2.5.1.; 3.2.5.2.	Existing access to an existing <i>occupancy</i> acceptable. Where the existing <i>building</i> is changed to a "B" <i>occupancy</i> , existing access may be acceptable.
B21	3.2.5.3.(1)	Existing acceptable, except where a change in <i>occupancy</i> occurs to a "B1" or "B2" <i>occupancy</i> .
B22	3.2.5.3.(2)	Existing acceptable.
B23	3.2.5.4.; 3.2.5.5.; 3.2.5.6.	Existing access route to existing <i>occupancy</i> is acceptable if the <i>building</i> is <i>sprinklered</i> . Where existing <i>building</i> is changed to a "B" <i>occupancy</i> , access route shall be provided.
B24	3.2.5.7.; 3.2.5.18.	Does not apply except where a change in <i>occupancy</i> occurs to a "B1" or "B2" <i>occupancy</i> , where occupants are not normally evacuated from the <i>building</i> .
B25	3.2.5.13.	Existing sprinkler systems in existing <i>buildings</i> that do not conform to NFPA 13 may be altered, added to, or extended from the existing system without complying with NFPA 13, provided the system is operational and adequate with respect to coverage, water supply and controls, and provided the system is evaluated by a qualified <i>designer</i> .
B26	3.2.6. Additional requirements for high buildings	Reserved
B27	3.2.9.	Does not apply except where a change in <i>occupancy</i> occurs to a Group B <i>occupancy</i> , where occupants are not normally evacuated from the <i>building</i> .
B28	3.3.1.5.(1)(c); Table 3.3.1.5.	Column 2 to read: 100 m <sup>2</sup> for "B1" and "B2" (sleeping rooms) and 200 m <sup>2</sup> for "B2" (other rooms).
B29	3.3.1.9.	Existing width of <i>public corridors</i> of not less than 914 mm is acceptable, except as provided in Sentence 3.3.3.3.(2).
B30	3.3.1.10.; 3.3.1.11.	Existing door swings may remain in <i>heritage buildings</i> , existing or being restored, with no change in <i>major occupancy</i> and with <i>occupant load</i> no greater than 100.
Col. 1	2	3



NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B31	3.3.1.12.	Existing doors acceptable.
B32	3.3.1.15.	Existing acceptable.
B33	3.3.1.16.	Existing non-conforming capacities of <i>access to exits</i> are acceptable, provided that the excessive capacity is no greater than 15%, and  (a) corridor <i>separations</i> are rated to Code plus early warning system provided, or  (b) there are sprinklers, plus <i>smoke alarms</i> in <i>suites</i> .
B34	3.3.1.17.	Existing acceptable.
B35	3.3.1.18.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
B36	3.3.3.3.(1)	Existing dead end corridors acceptable with 30 min <i>fire separation</i> of corridor plus sprinklering of <i>floor area</i> , provided the <i>occupant load</i> is not greater than 10 persons and travel distance not greater than 6 m plus corridor width to "exit choice" point.
B37	3.3.3.7.	45 min <i>fire separation</i> acceptable.
B38	3.3.5.5.(1); 3.3.5.8.(1) and (3)	Need not comply where a gasketed door and self closer are provided in the existing <i>fire separation</i> .
B39	3.4.1.8.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
B40	3.4.2.5.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> and provided <i>fire separations</i> comply with Part 3 of the Code.
B41	3.4.3.1.(2)	Existing acceptable provided there is no change in <i>occupancy</i> to a "B2" or "B3".
B42	3.4.3.5.	Existing acceptable.
B43	3.4.3.6.	Existing headroom clearance of not less than 1 980 mm is acceptable.
B44	3.4.5.1.(2) and (7)	Existing illuminated legible <i>exit</i> signs are acceptable.
B45	3.4.6.2.	Existing acceptable, if visually apparent.
B46	3.4.6.3.(1)	Existing acceptable with a rise of no greater than 3.7 m.
B47	3.4.6.3.(2)	Existing acceptable provided there is no change in <i>occupancy</i> to a "B2" or "B3".
B48	3.4.6.4.(2) to (9)	Existing acceptable.
B49	3.4.6.5.(2) to (5)	Existing acceptable.
B50	3.4.6.6.(1)	Existing acceptable.
B51	3.4.6.7.	Existing acceptable.
B52	3.4.6.8.	Existing acceptable where there is no change in <i>major occupancy</i> or increase in <i>occupant load</i> greater than 15%.
B53	3.4.6.10.(1), (2) and (4)	Existing acceptable.
B54	3.4.6.11.	Existing acceptable in <i>public heritage buildings</i> .
B55	3.4.6.15.(2) and (3)	Existing functionally operable panic hardware acceptable.
B56	3.4.6.17.(1)(c)	Existing access to existing <i>occupancy</i> is acceptable. Where the existing <i>building</i> is changed to a "B" <i>occupancy</i> , existing access may be acceptable.
B57	3.4.7.2.	<i>Combustible</i> fire escapes which are protected from fire in accordance with Sentence 3.2.3.13.(2) are permitted or may be reconstructed or recreated (as in the case of a <i>heritage building</i> ). Where serving non-ambulatory persons, minimum width shall be 1 100 mm.
B58	3.5.1.	Existing acceptable, except where <i>building</i> is classified under Subsection 3.2.6.
B59	3.6.2.1.(5)	45 min <i>fire separation</i> acceptable.
B60	3.6.2.7.	Existing acceptable.
B61	3.6.2.8.(1)	2 h <i>fire separation</i> acceptable.
B62	3.6.3.1.(1) to (5)	45 min <i>fire separation</i> acceptable.
B63	3.6.3.3.(1), (3), (4)(a), (5) and (10)	Existing acceptable.
Col. 1	2	3

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B64	3.6.3.3.(2)(a)	45 min <i>fire separation</i> acceptable.
B65	3.6.4.	Existing acceptable, except where a change in <i>occupancy</i> occurs to a Group B <i>occupancy</i> .
B66	3.7.1.3.(1)	Existing acceptable.
B67	3.7.2.1.(2)	The minimum glass areas may be reduced by 50%.
B68	3.7.4.2.	Where the <i>occupant load</i> is increased by more than 15% above the capacity of the existing facilities, facilities to be added to accommodate the increase.
Col. 1	2	3

NUMBER	PART 4 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
B69	4.1.9.	The requirements under this Subsection do not apply.
Col. 1	2	3

Table 11.5.1.1.C.

## Compliance Alternatives for Residential Occupancies

Forming Part of Article 11.5.1.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C1	3.1.4.6.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of member sizes listed in Part 3.
C2	3.1.5.2.; 3.1.5.3.; 3.1.5.4.; 3.1.5.6.	Existing acceptable.
C3	3.1.5.7.; 3.1.5.8.; 3.1.5.9.; 3.1.5.10.	Except for exposed foamed plastics, existing acceptable. To match existing, materials may be added from on or off site.
C4	3.1.5.13.; 3.1.5.14.; 3.1.5.15.; 3.1.5.16.; 3.1.5.20.; 3.1.5.22.	Existing acceptable.
C5	3.1.7.1.	<p><i>Fire-resistance ratings</i> may also be used where they are based on:</p> <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
C6	3.1.7.5.(3)	Existing assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
C7	3.1.8.1.(2); 3.1.8.6.(1) and (2)	Existing functional <i>closures</i> are acceptable and may be relocated within the same existing <i>fire separation</i> .
C8	3.1.8.5.(2)	<ol style="list-style-type: none"> <li>(a) Existing functional and sound doors in existing <i>buildings</i> that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min,</li> <li>(b) all existing functional and sound hollow metal or kalamein doors which carry existing 1.5 h labels are acceptable in lieu of current 1.5 h labels and may contain wired glass panels not exceeding 0.0645 m<sup>2</sup>, at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and</li> <li>(c) every fire door, window assembly or glass block used as a <i>closure</i> in a required <i>fire separation</i> shall be installed in conformance with good engineering practice.</li> </ol>
C9	3.1.8.7.; 3.1.8.8.; 3.1.8.9.	Except for <i>hotels</i> , <i>fire dampers</i> or <i>fire stop flaps</i> are not required to be installed in existing ducts at penetrations of existing <i>fire separations</i> .
C10	3.1.8.10.(1)	For existing unlabeled doors in existing <i>buildings</i> , at least 45 mm solid core wood or metal clad are acceptable. Except for <i>residential occupancies</i> , existing closure rating of 20 min will not be required where the entire <i>floor area</i> is <i>sprinklered</i> .
Col. 1	2	3

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C11	3.1.8.13.	Existing functionally operable latching devices, excluding draw bolts, are acceptable.
C12	3.1.8.14.	Existing transoms or sidelights located in <i>fire separations</i> not required to be greater than 1 h may be retained if wired glass, at least 6 mm thick, is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
C13	3.1.8.15.; 3.1.8.16.; 3.1.8.17.	Existing acceptable.
C14	3.1.11.	Where the concealed space is being materially altered, provide smoke or heat detection in that space in lieu of firestops and tie into fire alarm system.
C15	3.2.2.17.(1)(b) and (c)	Existing sprinkler systems in 1 <i>storey buildings</i> need not comply.
C16	3.2.3.	Existing windows <ul style="list-style-type: none"> <li>(a) Existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i>, lies not closer than 300 mm from a window in such other <i>building</i>, where the "opposite" window is less than 2 400 mm from the opposite new opening, and</li> <li>(b) Except relocation of units, shall be restricted to the same <i>fire compartment</i> and shall conform to the requirements of Articles 3.2.3.13. or 9.10.12.4. where applicable, or</li> <li>(c) Where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be relocated provided: <ul style="list-style-type: none"> <li>(i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or</li> <li>(ii) the <i>building</i> is <i>sprinklered</i>.</li> </ul> </li> </ul>
C17	3.2.4.	<ul style="list-style-type: none"> <li>(a) Existing fire alarm system may remain except that Article 3.2.4.5. does not apply where the "Fire Safety Plan" (as described in Subsection 2.8.2. of the Ontario Fire Code) for the <i>building</i> addresses the intent of Subsection 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and</li> <li>(b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.</li> </ul>
C18	3.2.4.21.	Such <i>smoke alarms</i> may be battery operated.
C19	3.2.5.1.; 3.2.5.2.	Existing acceptable.
C20	3.2.5.3.(1)	Existing access acceptable.
C21	3.2.5.3.(2)	Existing acceptable.
C22	3.2.5.4.; 3.2.5.5.; 3.2.5.6.	<ul style="list-style-type: none"> <li>(a) For <i>buildings</i> 6 <i>storeys</i> and less, existing access to existing <i>occupancy</i> is acceptable, and</li> <li>(b) Where existing <i>building</i> is changed to a "C" <i>occupancy</i>, an access route shall be provided, or the existing access is acceptable provided the <i>building</i> is <i>sprinklered</i>.</li> </ul>
C23	3.2.5.7.	Existing water supply and hydrants are acceptable in <i>buildings</i> up to 6 <i>storeys</i> in <i>building height</i> .
C24	3.2.5.13.	Existing sprinkler systems in existing <i>buildings</i> that do not conform to NFPA 13 may be altered, added to, or extended from the existing system without complying with NFPA 13, provided the system is operational and adequate with respect to coverage, water supply and controls, and provided the system is evaluated by a qualified designer.
C25	3.2.6. Additional requirements for high <i>buildings</i>	Reserved
C26	3.2.9.	Does not apply to <i>buildings</i> 4 <i>storeys</i> and less. For existing <i>buildings</i> over 4 <i>storeys</i> in <i>building height</i> , existing standpipe and hose systems water supply is acceptable provided it can deliver a minimum flow rate of 265 L/min for 30 min at 345 kPa (gauge) at the two highest and most remote hose valves, with not less than 132 L/min from each of the two simultaneously.
Col. 1	2	3



NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C27	3.3.1.4.(1); 3.3.4.2.(1)	30 min is acceptable to separate corridors or exits in buildings not exceeding 6 storeys in building height, except that 45 min is required for exits in buildings exceeding 3 storeys in building height. For buildings exceeding 6 storeys in building height, 30 min is acceptable where smoke detectors are installed in corridors, except 1 h is required in exits. 30 min is acceptable to separate public corridors, exits or suites in hotels, provided fire detectors are installed in every room in a suite and in every room not located in a suite, other than corridors, washrooms, closets in suites, saunas, refrigerated areas and swimming pools.
C28	3.3.1.5.(1)(c); Table 3.3.1.5.	In Column 2, maximum area of room or suite to be unlimited.
C29	3.3.1.9.	Existing width of public corridors of not less than 914 mm is acceptable.
C30	3.3.1.10.; 3.3.1.11.	Existing door swings may remain in heritage buildings, existing or being restored, with no change in major occupancy and with occupant load no greater than 100.
C31	3.3.1.12.	Existing doors acceptable, provided not less than 600 mm wide.
C32	3.3.1.15.	Existing curved or spiral stairs acceptable.
C33	3.3.1.16.	Existing non-conforming capacities of access to exits are acceptable, provided that the excessive capacity is no greater than 15%,  (a) corridor fire separations are to be rated to Code plus early warning system provided, or  (b) there are sprinklers, plus smoke alarms in suites.
C34	3.3.1.17.	Does not apply to heritage buildings.
C35	3.3.1.18.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
C36	3.3.4.2.(2)(a) (b) (c)	30 min fire separation acceptable. 45 min fire separation acceptable. 1.5 h fire separation acceptable.
C37	3.3.4.4.(5) and (6)	For buildings 6 storeys and less, doorway from dwelling unit will be permitted to open directly into exit stairway or interior corridor served by a single exit if a fire alarm system complying with Subsection 3.2.4. is installed and the dwelling unit has a second and separate means of egress.
C38	3.3.5.5.(1) and 3.3.5.8.(3)	Need not comply where a gasketed door and self closer are provided in the existing fire separation.
C39	3.4.1.4.	Except for hotels, the following types of exits may also be used for buildings not over 6 storeys in building height  (a) connected balconies, which connect across firewalls, or connect to another exit, or with access to ground level.  (b) areas of refuge where fire service rescue is possible and that comply with Measure L of Sentences (4) to (10), (18) and (20)(a), (b) and (d) in the Supplementary Guideline.
C40	3.4.1.8.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
C41	3.4.2.5.(1)	Existing travel distance acceptable where floor area is sprinklered and provided fire separations comply with Part 3 of the Code.
C42	3.4.3.1.(2)	Existing width of exits acceptable provided the occupant load is not more than 15% above the exit capacity.
C43	3.4.3.5.	Except for heritage buildings, existing acceptable, provided not less than 800 mm.
C44	3.4.3.6.	Existing headroom clearance of not less than 1 980 mm is acceptable.
C45	3.4.4.1.(1)	Except for exits, no rating required where floor areas are sprinklered.
C46	3.4.4.1.	Fire separations of exits permitted in buildings: - 30 min, up to 3 storeys in building height; - 45 min, in hotels up to 3 storeys in building height; - 45 min, up to 6 storeys in building height; - 1 h, over 6 storeys in building height.
C47	3.4.4.4.(7)	Existing washrooms opening directly into an exit stairwell shall be separated from the exit stairwell by a 45 min closure.
C48	3.4.5.1.(2) and (7)	Existing illuminated legible exit signs are acceptable.
Col. 1	2	3

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C49	3.4.6.1.	Existing acceptable.
C50	3.4.6.2.	Existing acceptable, if visually apparent.
C51	3.4.6.3.(1) and (2)	Existing acceptable with rise no greater than 3.7 m.
C52	3.4.6.3.(3) and (4)	Existing acceptable.
C53	3.4.6.4.(2) and (8)	Existing acceptable.
C54	3.4.6.5. (2) and (4)	Existing acceptable.
C55	3.4.6.6.(1)	Existing acceptable.
C56	3.4.6.7.; 3.4.6.8.	Existing acceptable.
C57	3.4.6.9.(2) to (6)	Existing acceptable.
C58	3.4.6.10.(1) and (2)	Existing acceptable.
C59	3.4.6.11.	Existing acceptable in <i>heritage buildings</i> provided the <i>occupant load</i> is not more than 60.
C60	3.4.6.15.(1) to (3)	Existing functionally operable panic hardware acceptable.
C61	3.4.7.2.	<i>Combustible</i> fire escapes which are protected from fire in accordance with Sentence 3.2.3.13.(2) are permitted or may be reconstructed or recreated (as in the case of a <i>heritage building</i> ).
C62	3.5.1.	Existing acceptable except where <i>building</i> is classified under Subsection 3.2.6.
C63	3.6.2.1.(5)	45 min <i>fire separation</i> acceptable.
C64	3.6.2.3.	Existing acceptable where explosion-resistant <i>construction</i> or venting is provided.
C65	3.6.2.7.	Existing acceptable.
C66	3.6.2.8.(1)	2 h <i>fire separation</i> acceptable.
C67	3.6.3.1.(1) to (5)	45 min <i>fire separation</i> acceptable up to 6 <i>storeys</i> .
C68	3.6.3.3.(2)	Where 2 h <i>fire separation</i> is required, 1 h is acceptable.  Except for linen discharge rooms where 1 h <i>fire separation</i> is required, 45 min is acceptable.
C69	3.6.3.3.(4) and (5)	Existing sizes acceptable.
C70	3.6.3.3.(9)	Where 2 h <i>fire separation</i> is required, 1 h is acceptable.
C71	3.6.4.2.	Ceiling <i>fire separation</i> need not be fire-resistance rated where sprinklering, subject to C.A. C24, of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
C72	3.6.4.3.(1)	Existing to meet <i>flame-spread rating</i> of 25 or to be <i>sprinklered</i> .
C73	3.6.4.4.; 3.6.4.5.; 3.6.4.6.	Existing access acceptable.
C74	3.7.1.1.(2)	Minimum room height shall be not less than 1 950 mm over the required floor area and any location that would normally be used as a <i>means of egress</i> .
C75	3.7.2.1.	(a) Where windows are not used as <i>means of egress</i> and where they do not conflict with ventilation requirements, the minimum glass areas as shown in Table 9.7.1.2. may be reduced by 50%, or  (b) an existing room converted to an interior room, created by an addition, shall not require a window, provided there is an opening in a dividing wall occupying not less than 30% of the separating plane to an adjoining room, where the adjoining room has a minimum of 5% window area of the combined floor areas, and provided the required ventilation for the combined rooms is maintained.
C76	3.7.4.2.	Where the <i>occupant load</i> is increased by more than 15% above the capacity of the existing facilities, facilities to be added to accommodate the increase.
Col. 1	2	3

NUMBER	PART 4 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C77	4.1.9.	The requirements under this Subsection do not apply.
Col. 1	2	3

NUMBER	PART 6 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C78	6.2.3.2.; 6.2.3.5.; 6.2.3.6.; 6.2.3.12.	Existing acceptable.
C79	6.2.3.13.(2)	In a <i>building</i> containing not more than four <i>dwelling units</i> , the existing heating or <i>air conditioning</i> system may be altered to serve more than one <i>dwelling unit</i> provided <i>smoke alarms</i> are installed in each <i>dwelling unit</i> and provided a <i>smoke detector</i> is installed in the supply or return air duct system serving the entire <i>building</i> which would turn off the fuel supply and electrical power to the heating system upon activation of such detector.
C80	6.2.3.17.	Existing openings, grilles and diffusers acceptable.
C81	6.2.4.2.(1); 6.2.4.5.(1) to (3)	Existing acceptable.
C82	6.2.4.5.(10)	Where the duct system is being altered, lesser amounts and extent of insulation will be permitted.
C83	6.2.9.2.	Existing acceptable.
C84	6.3.1.	Existing acceptable, provided products of combustion are safely vented.
Col. 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C85	9.3.2.1.	Sound used lumber may be acceptable for reuse without a grade stamp provided that: <ul style="list-style-type: none"> <li>(a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage,</li> <li>(b) where the grade or species is unknown, the minimum grade shall apply for span table use, and</li> <li>(c) lumber has not been subjected to termite infestation.</li> </ul>
C86	9.5.3.1.	In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i> , <ul style="list-style-type: none"> <li>(a) minimum room height shall not be less than 1 950 mm over the required floor area and in any location that would normally be used as a <i>means of egress</i>, or</li> <li>(b) minimum room height shall not be less than 2 030 mm over at least 50% of the required floor area, provided that any part of the floor having a clear height of less than 1 400 mm shall not be considered in computing the required floor area.</li> </ul>
C87	9.6.3.1.	Doors may be lesser heights to suit ceiling heights.
C88	9.6.3.2.	Except where required in 9.9.2.7. existing acceptable, provided not less than 600 mm.
C89	9.6.5.	Existing acceptable.
C90	9.6.6.2.; 9.6.6.3.	Existing doors and sidelights being reused or relocated need not conform if identified or protected.
C91	9.7.1.2.	<ul style="list-style-type: none"> <li>(a) Where windows are not used as a <i>means of egress</i> and where they do not conflict with ventilation requirements, the minimum glass areas as shown in Table 9.7.1.2. may be reduced by 50%, and</li> <li>(b) an existing room converted to an interior room created by an addition shall not require a window, provided there is an opening in a dividing wall occupying not less than 30% of the separating plane to an adjoining room where the adjoining room has a minimum of 5% window area of the combined floor areas, and provided the required ventilation for the combined room is maintained.</li> </ul>
C92	9.7.1.3.	In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i> , existing acceptable, where there is direct access to the exterior.
C93	9.7.1.7.	Existing acceptable.
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NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C94	9.7.5.1.	Existing acceptable, if marked to indicate their existence and position.
C95	9.8.1. to 9.8.4.	Replacement or extension of existing stair systems shall be exempt from the provisions of these Articles, except that they shall have: <ul style="list-style-type: none"> <li>(a) a minimum width between wall faces of 700 mm, and</li> <li>(b) a minimum clear height over tread nosing of or landing 1 800 mm.</li> </ul>
C96	9.8.5.2.	Existing curved or spiral stairs are acceptable.
C97	9.8.5.3.	Where a stair complies with Subsection 9.8.3., an extension to a stair may contain two sets of winders provided that they are separated by at least 3 treads or a landing.
C98	9.8.6.	Existing ramps acceptable, where practical.
C99	9.8.7.	Existing handrails acceptable, unless considered unsafe by <i>chief building official</i> .
C100	9.8.8.	Existing <i>guards</i> acceptable, unless considered unsafe by <i>chief building official</i> .
C101	9.8.9.5.(2)	Existing acceptable.
C102	9.9.2.2.	Except for <i>hotels</i> , the following types of <i>exits</i> may also be used: <ul style="list-style-type: none"> <li>(a) connected balconies, which connect across <i>firewalls</i>, or connect to another <i>exit</i>, or with access to ground level,</li> <li>(b) areas of refuge approved by the <i>chief building official</i>, where fire service rescue is possible, or</li> <li>(c) <i>combustible</i> or <i>noncombustible</i> exterior stairways or fire escapes which are protected in accordance with Sentence 3.2.3.13.(2). These may be reconstructed or recreated (as in the case of a <i>heritage building</i>).</li> </ul>
C103	9.9.2.6.	Existing acceptable, provided that the enclosure has a 45 min <i>fire-resistance rating</i> .
C104	9.9.2.7.	Except for <i>hotels</i> , existing acceptable.
C105	9.9.3.2.	<ul style="list-style-type: none"> <li>(a) In a <i>building</i> containing not more than four <i>dwelling units</i>, the width of every <i>exit</i> facility may be as the existing, but not less than 800 mm, or</li> <li>(b) In a <i>building</i> containing more than four <i>dwelling units</i>, the width of every <i>exit</i> facility may be as the existing, but not less than 900 mm.</li> </ul>
C106	9.9.3.3.	<ul style="list-style-type: none"> <li>(a) In a <i>building</i> containing not more than four <i>dwelling units</i>, the minimum width of a <i>public corridor</i> may be 800 mm, or</li> <li>(b) In a <i>building</i> containing more than four <i>dwelling units</i>, the minimum width of a <i>public corridor</i> may be 900 mm.</li> </ul>
C107	9.9.3.4.	Existing headroom clearance of not less than 1 950 mm is acceptable.
C108	9.9.4.2.	Except as permitted in C122, in a <i>building</i> containing not more than four <i>dwelling units</i> or <i>suites</i> , one <i>exit</i> need not be separated from the remainder of the <i>building</i> at the <i>first storey</i> where there are one or more other <i>exits</i> complying with C109.
C109	9.9.4.2.(1) and (2)	30 min <i>fire separation</i> acceptable.
C110	9.9.5.4.	Existing acceptable.
C111	9.9.5.8.	Existing acceptable provided minimum 45 min <i>fire separation</i> and where explosion-resistant <i>construction</i> or venting is provided.
C112	9.9.6.2.	Except for <i>hotels</i> , existing acceptable.
C113	9.9.6.3.	Existing headroom clearance of not less than 1 950 mm is acceptable, with existing door heights to be acceptable.
C114	9.9.6.4.	Existing door widths and heights are acceptable, provided <i>exit</i> widths and heights conform to C.A.'s C105 and C107.
C115	9.9.6.5.	Existing door swings acceptable.  Existing acceptable in <i>public heritage buildings</i> , where approved by <i>chief building official</i> .
C116	9.9.6.6.(1)	Where <i>exit</i> doors open onto a landing, they shall not extend beyond the face of the first riser.
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NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C117	9.9.6.10.	Existing functionally operable passage or panic hardware acceptable.
C118	9.9.7.3.(1)(a)	Maximum area of existing room or <i>suite</i> does not apply.
C119	9.9.7.4.	Except as provided in C122, in detached houses, semi-detached houses, townhouses row houses containing not more than two <i>dwelling units</i> , requirement applies.
C120	9.9.8.2.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> and provided <i>fire separations</i> comply with Part 9 of the Code.
C121	9.9.8.5.	In a <i>building</i> containing not more than four <i>dwelling units</i> or <i>suites</i> , existing glazed solid wood doors to lobby may remain in lieu of new 20 minute doors, provided the <i>fire separations</i> for the floor above or below are provided as per C.A. C132, and a second <i>means of egress</i> from the <i>dwelling units</i> complies with the Code requirements.
C122	9.9.9.	<p>In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i>, <i>exit</i> requirements are acceptable if at least one of the following conditions exists:</p> <ul style="list-style-type: none"> <li>(a) a door, including a sliding door, that opens directly to the exterior from a <i>dwelling unit</i>, serves only that <i>dwelling unit</i> and has reasonable access to ground level, and the <i>dwelling units</i> are equipped with <i>smoke alarms</i> installed in conformance with Subsection 9.10.18.,</li> <li>(b) an <i>exit</i> that is accessible to more than one <i>dwelling unit</i> and provides the only <i>means of egress</i> from each <i>dwelling unit</i>, provided that the <i>means of egress</i> is separated from the remainder of the <i>building</i> and common areas by a <i>fire separation</i> having a 30 min <i>fire-resistance rating</i> and provided further that the required <i>access to exit</i> from any <i>dwelling unit</i> cannot be through another <i>dwelling unit</i>, <i>service room</i> or other <i>occupancy</i>, and both <i>dwelling units</i> and common areas are provided with <i>smoke alarms</i> installed in conformance with Subsection 9.10.18. and are interconnected, or</li> <li>(c) access to an <i>exit</i> from one <i>dwelling unit</i> which leads through another <i>dwelling unit</i> where <ul style="list-style-type: none"> <li>(i) an additional means of escape is provided through a window that conforms to the following: <ul style="list-style-type: none"> <li>- the sill height is not more than 1 000 mm above or below adjacent ground level,</li> <li>- the window can be opened from the inside without the use of tools,</li> <li>- the window has an individual unobstructed open portion having a minimum area of 0.38 m<sup>2</sup> with no dimension less than 460 mm,</li> <li>- the sill height does not exceed 900 mm above the floor or fixed steps,</li> <li>- where the window opens into a window well, a clearance of not less than 1 000 mm shall be provided in front of the window, and</li> <li>- <i>smoke alarms</i> are installed in every <i>dwelling unit</i> and in common areas in conformance with Subsection 9.10.18. and are interconnected,</li> </ul> </li> <li>(ii) an additional means of escape is provided through a window that conforms to the following: <ul style="list-style-type: none"> <li>- a casement window not less than 1 060 mm high, 560 mm wide, with a sill height not more than 900 mm above the inside floor,</li> <li>- the sill height of the window is not more than 5 m above adjacent ground level, and</li> <li>- <i>smoke alarms</i> are installed in every <i>dwelling unit</i> and in common areas in conformance with Subsection 9.10.18. and are interconnected, or</li> </ul> </li> <li>(iii) the <i>building</i> is <i>sprinklered</i> and the <i>dwelling units</i> are equipped with <i>smoke alarms</i> installed in conformance with Subsection 9.10.18.</li> </ul> </li> </ul>
C123	9.9.10.	In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i> , the requirements under this Subsection do not apply.
C124	9.9.10.6.	Existing illuminated legible signs are acceptable for <i>exit</i> signs, if approved by <i>chief building official</i> .
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NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C125	9.9.11.	In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i> , the requirements under this Subsection apply only where the condition described in (b) of C122 exists.
C126	9.10.1.1.	Assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
C127	9.10.1.3.(8)	Existing installations acceptable subject to C.A.'s C23, C24 and C26.
C128	9.10.3.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
C129	9.10.5.1.	Existing openings in existing wall or ceiling membranes to remain. Existing openings may be moved to another location in the same wall or ceiling, provided the aggregate area of openings does not increase and are not accumulative, and the existing opening is blocked up to provide the same rating as the existing wall or ceiling assembly.
C130	9.10.6.2.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of member sizes listed in Part 3.
C131	9.10.7.	Existing acceptable for <i>heritage buildings</i> , subject to approval of <i>chief building official</i> .
C132	9.10.8.1.; 9.10.8.3.; 9.10.8.7.	<ol style="list-style-type: none"> <li>(a) Except as provided in (b) and (c), 30 min rating is acceptable.</li> <li>(b) In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i>, 15 min horizontal <i>fire separation</i> is acceptable where <ol style="list-style-type: none"> <li>(i) <i>smoke alarms</i> are installed in every <i>dwelling unit</i> and in common areas in conformance with Subsection 9.10.18., and</li> <li>(ii) <i>smoke alarms</i> are interconnected.</li> </ol> </li> <li>(c) In detached houses, semi-detached houses townhouses and row houses containing not more than two <i>dwelling units</i>, the <i>fire-resistance rating</i> of the <i>fire separation</i> is waived where the <i>building</i> is <i>sprinklered</i>.</li> </ol>
C133	9.10.9.7.; 9.10.9.9.	Existing acceptable in existing <i>fire separations</i> .
C134	9.10.9.10.(1)	Ceiling <i>fire separation</i> need not be <i>fire-resistance rated</i> where sprinklering, subject to C.A. C24, of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
C135	9.10.9.11.(1)	Except for <i>hotels</i> , 30 min <i>fire separation</i> acceptable.
C136	9.10.9.11.(2)	In lieu of the 2 h <i>fire separation</i> , sprinklers may be used in the <i>mercantile occupancy</i> or <i>medium hazard industrial occupancy</i> , with a 1 h <i>fire separation</i> .
C137	9.10.9.14.(1), (3); 9.10.9.15.(1)	<ol style="list-style-type: none"> <li>(a) Except as provided in (b) and (c), 30 min <i>fire separation</i> is acceptable,</li> <li>(b) In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i>, 15 min horizontal <i>fire separation</i> is acceptable where <ol style="list-style-type: none"> <li>(i) <i>smoke alarms</i> are installed in every <i>dwelling unit</i> and in common areas in conformance with Subsection 9.10.18., and</li> <li>(ii) <i>smoke alarms</i> are interconnected,</li> </ol> </li> <li>(c) in detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i>, the <i>fire-resistance rating</i> of the <i>fire separation</i> is waived where the <i>building</i> is <i>sprinklered</i>.</li> </ol>
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NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C138	9.10.10.3.	<p>(a) except as provided in (b) and (c) and in Articles 9.10.10.5. and 9.10.10.6., 30 min fire separation is acceptable,</p> <p>(b) in detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i>, the <i>fire-resistance rating</i> of the vertical fire separation is waived where</p> <p>(i) <i>smoke alarms</i> are installed in every <i>dwelling unit</i> and in common areas in conformance with Subsection 9.10.18., and</p> <p>(ii) <i>smoke alarms</i> are interconnected,</p> <p>(c) in detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i>, the <i>fire-resistance rating</i> of the vertical fire separation is waived where <i>service rooms</i> are <i>sprinklered</i>.</p>
C139	9.10.11.2.(1)	In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i> , a <i>party wall</i> with 1 h <i>fire-resistance rating</i> is acceptable.
C140	9.10.13.1	Existing functional closures are acceptable subject to C.A. C8. and C141.
C141	9.10.13.1.	In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i> , existing unlabelled doors at least 45 mm solid core wood or metal clad are acceptable. For existing <i>closures</i> , ratings of 20 min will not be required where the entire <i>floor area</i> is <i>sprinklered</i> .
C142	9.10.13.2.(1)	In a <i>building</i> containing not more than four <i>dwelling units</i> or <i>suites</i> , existing glazed solid wood doors to corridors may remain in lieu of new 20 min doors, provided they are not located in a dead end corridor.
C143	9.10.13.3.	Existing acceptable provided that wood door frames are secured with hinge screws going through frame into the stud.
C144	9.10.13.5.	Existing wired glass acceptable. Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass at least 6 mm thick is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
C145	9.10.13.6.	Existing steel door frames acceptable.
C146	9.10.13.7.	Existing glass block acceptable.
C147	9.10.13.8.	Existing sizes acceptable.
C148	9.10.13.9.	Existing operable latches acceptable.
C149	9.10.13.10.(1)	Existing functionally operable self-closing devices acceptable.
C150	9.10.13.11.	Existing operable self-releasing electromagnetic hold-open device acceptable, and except for <i>hotels</i> , fusible link hold-open devices acceptable.
C151	9.10.13.12.	Existing swings acceptable.
C152	9.10.13.13.(1)	In a <i>building</i> containing not more than four <i>dwelling units</i> , the existing heating or <i>air conditioning</i> system may be altered to serve more than one <i>dwelling unit</i> provided <i>smoke alarms</i> are installed in each <i>dwelling unit</i> and provided a <i>smoke detector</i> is installed in the supply or return air duct system serving the entire <i>building</i> which would turn off the fuel supply and electrical power to the heating system upon activation of such detector.
C153	9.10.13.13.(1)	In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i> , existing acceptable.
C154	9.10.13.14.; 9.10.5.1.	In a <i>building</i> containing not more than four <i>dwelling units</i> , the existing heating or <i>air conditioning</i> system may be altered to serve more than one <i>dwelling unit</i> provided <i>smoke alarms</i> are installed in each <i>dwelling unit</i> and provided a <i>smoke detector</i> is installed in the supply or return air duct system serving the entire <i>building</i> which would turn off the fuel supply and electrical power to the heating system upon activation of such detector.
C155	9.10.5.1.	In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i> , existing acceptable.
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NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C156	9.10.14.1.	Existing windows <ul style="list-style-type: none"> <li>(a) Existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i>, lies no closer than 300 mm from a window in such other <i>building</i>, where the "opposite" window is less than 2 400 mm from the opposite new opening, and</li> <li>(b) except relocation of units, to be restricted to the same <i>fire compartment</i> and shall conform to the requirements of Articles 3.2.3.13. or 9.10.12.4. where applicable, or</li> <li>(c) where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be relocated provided: <ul style="list-style-type: none"> <li>(i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or</li> <li>(ii) the <i>building</i> is <i>sprinklered</i>.</li> </ul> </li> </ul>
C157	9.10.14.7.; 9.10.14.8.	Where an addition to an existing residential <i>building</i> has its <i>exposing building face</i> further distant from the line than the existing <i>exposing building face</i> and the <i>limiting distance</i> is at least 1 200 mm, the total area of allowable <i>unprotected openings</i> may be determined under Article 9.10.14.8. for the combined new and existing <i>exposing building faces</i> , and <ul style="list-style-type: none"> <li>(a) where the existing <i>exposing building face</i> has no <i>unprotected openings</i>, or the existing <i>unprotected openings</i> are to be filled in, the total allowable area of <i>unprotected openings</i> may be installed in the new <i>exposing building face</i>, or</li> <li>(b) where the existing <i>unprotected openings</i> are to remain, their area shall be deducted from the total allowable area of <i>unprotected openings</i>, and the balance may be installed in the new <i>exposing building face</i>, and</li> <li>(c) Article 9.10.14.7. applies only to the new <i>exposing building face</i>.</li> </ul>
C158	9.10.15.2.(1)	Where balloon framing is exposed during renovation, fire stopping shall be provided.
C159	9.10.17.	<ul style="list-style-type: none"> <li>(a) Subject to approval by the <i>chief building official</i>, existing fire alarm system may remain where the Fire Safety Plan for the <i>building</i> addresses the intent of Subsection 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and</li> <li>(b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.</li> </ul>
C160	9.10.19.	Existing access acceptable.
C161	9.10.18.3.	<i>Smoke alarms</i> may be battery operated.
C162	9.14.2.1.(2)	Existing acceptable.
C163	9.18.2.	Existing access acceptable.
C164	9.18.3.	Existing vents and ventilation acceptable.
C165	9.19.	Existing acceptable.
C166	9.20.2.2.	Used masonry may be reused for patching and filling openings to match adjacent work. Used interior brick may not be used for exterior applications.
C167	9.20.3.	Archaic mortars may be used to match existing jointing.
C168	9.20.4.1.	Sound jointing techniques may be employed to match existing archaic joints.
C169	9.20.12.1.	Corbelling may be constructed to match existing or original details, provided that it is structurally adequate for the proposed use.
C170	9.21.	Existing acceptable, provided the products of combustion are safely vented, and provided no fire hazard is created.
C171	9.22.1. to 9.22.7.	Sound period materials, designs and techniques may be employed in recreated fireplaces, provided no fire hazard is created. Article 9.22.1.4. need not comply.
C172	9.23.	Existing acceptable.
Col. 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
C173	9.24.	Existing acceptable.
C174	9.25.	<p>(a) Where the framing systems are being altered to match the existing framing, lesser amounts and extent of insulation and <i>vapour barrier</i> will be permitted. A <i>vapour barrier</i> may consist of paint or other coating with specified perm rating such as two coats of leafing aluminum pigmented paint.</p> <p>(b) Existing acceptable for Sentences 9.25.2.1.(5) to (7).</p> <p>(c) Existing previously occupied log houses that are dismantled and reconstructed are exempt from Sentences 9.25.2.1.(13) and (14).</p>
C175	9.26.	Existing acceptable, except when removing and replacing shingles, comply with the eave protection requirements of Subsection 9.26.5.
C176	9.27.	Existing acceptable.
C177	9.28.	All replacement or recreation of existing stucco may be compatible with the existing materials and application.
C178	9.29.4.	Existing acceptable. All replacement or recreation of existing plaster may be compatible with the existing materials and application.
C179	9.32.	In detached houses, semi-detached houses, townhouses and row houses containing not more than two <i>dwelling units</i> , rooms or spaces in <i>dwelling units</i> to be ventilated by natural means in accordance with Subsection 9.32.2. or by providing adequate mechanical ventilation.
C180	9.33.1.1.	In a <i>building</i> containing not more than four <i>dwelling units</i> , the existing heating or <i>air conditioning</i> system may be altered to serve more than one <i>dwelling unit</i> provided <i>smoke alarms</i> are installed in each <i>dwelling unit</i> and provided a <i>smoke detector</i> is installed in the supply or return air duct system serving the entire <i>building</i> which would turn off the fuel supply and electrical power to the heating system upon activation of such detectors.
C181	9.33.1.2.	<p>Sound, used or antique <i>appliances</i> are acceptable, provided that:</p> <p>(a) visual examination shows no excessive weakening by corrosion or other damage,</p> <p>(b) no structural parts are missing,</p> <p>(c) no cracks are present in the components intended to support the <i>appliance</i> or enclose the fire, and</p> <p>(d) loading and ash removal door latches and hinges hold the door closed.</p>
C182	9.34.4.1.	Existing meter mounting devices need not be relocated to these requirements during renovations.
C183	9.34.4.3.	Existing overhead and underground supply need not be relocated to these requirements during renovation.
C184	9.34.4.4.; 9.34.4.5.	Existing acceptable.
C185	9.37.	<p>Sound used materials shall be acceptable for reuse, subject to the following limitations:</p> <p>(a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage, and</p> <p>(b) logs have not been subjected to termite infestation.</p>
Col. 1	2	3

Table 11.5.1.1.D/E.

## Compliance Alternatives for Business/Mercantile Occupancies

Forming Part of Article 11.5.1.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE1	3.1.4.6.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of member sizes listed in Part 3.
DE2	3.1.5.2.; 3.1.5.3.; 3.1.5.4.; 3.1.5.6.	Existing acceptable.
Col. 1	2	3



NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE3	3.1.5.7.; 3.1.5.8.; 3.1.5.9.; 3.1.5.10.	Except for exposed foamed plastics, existing acceptable. To match existing, materials may be added from on or off site.
DE4	3.1.5.14.; 3.1.5.15.; 3.1.5.20.; 3.1.4.22.	Existing acceptable.
DE5	3.1.7.1.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
DE6	3.1.7.5.(3)	Existing assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
DE7	3.1.8.1.(2); 3.1.8.6.	Existing functional <i>closures</i> are acceptable and may be relocated within the same existing <i>fire separation</i> .
DE8	3.1.8.5.(2)	<ol style="list-style-type: none"> <li>(a) Existing functional and sound doors in existing <i>buildings</i> that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min,</li> <li>(b) all existing functional and sound hollow doors which carry existing 1.5 h labels are acceptable in lieu of current 1.5 h labels and may contain wired glass panels not exceeding 0.0645 m<sup>2</sup>, at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and</li> <li>(c) every fire door, window assembly or glass block used as a <i>closure</i> in a required <i>fire separation</i> shall be installed in conformance with good engineering practice.</li> </ol>
DE9	3.1.8.7.; 3.1.8.9.	<i>Fire dampers</i> or <i>fire stop flaps</i> are not required to be installed in existing ducts at penetrations of existing <i>fire separations</i> .
DE10	3.1.8.10.(1)	For existing unlabelled doors in existing <i>buildings</i> , at least 45 mm solid core wood or metal clad are acceptable.
DE11	3.1.8.13.	Existing functionally operable latching devices, excluding draw bolts, are acceptable.
DE12	3.1.8.14.	Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass, at least 6 mm thick, is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
DE13	3.1.8.15.; 3.1.8.16.; 3.1.8.17.	Existing acceptable.
DE14	3.1.11.	Where the concealed space is being materially altered, smoke or heat detection in that space in lieu of firestops and tied into fire alarm system is acceptable.
DE15	3.2.2.17.(1)(b) and (c)	Existing sprinkler systems in 1 <i>storey buildings</i> need not comply.
DE16	3.2.3.	Existing windows <ol style="list-style-type: none"> <li>(a) Existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i>, lies not closer than 300 mm from a window in such other <i>building</i>, where the "opposite" window is less than 2 400 mm from the opposite new opening, and</li> <li>(b) Except relocation of units, shall be restricted to the same <i>fire compartment</i> and shall conform to the requirements of Articles 3.2.3.13. or 9.10.12.4. where applicable, or</li> <li>(c) Where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be relocated provided: <ol style="list-style-type: none"> <li>(i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or</li> <li>(ii) the <i>building</i> is sprinklered.</li> </ol> </li> </ol>
Col. 1	2	3

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE17	3.2.4.1.(1)(d)	(a) Existing fire alarm system may remain except that Article 3.2.4.5. does not apply where the "Fire Safety Plan" (as described in Subsection 2.8.2. of the Ontario Fire Code) for the <i>building</i> addresses the intent of Subsection 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and  (b) Extension of an existing system must ensure continuity and compatibility, and integrity of the system.
DE18	3.2.5.1.; 3.2.5.2.	Existing acceptable.
DE19	3.2.5.3.	Existing access acceptable.
DE20	3.2.5.4.; 3.2.5.5.; 3.2.5.6.	Existing acceptable provided the building is sprinklered.
DE21	3.2.5.7.	Does not apply, except where a change in <i>major occupancy</i> occurs from a lesser <i>hazard index</i> .
DE22	3.2.5.13.	Existing sprinkler systems in existing <i>buildings</i> that do not conform to NFPA 13 may be altered, added to, or extended from the existing system without complying with NFPA 13, provided the system is operational and adequate with respect to coverage, water supply and controls, and provided the system is evaluated by a qualified designer.
DE23	3.2.6. Additional requirements for high buildings	Reserved
DE24	3.2.9.	Does not apply to <i>buildings</i> 6 storeys and less. Does not apply to <i>sprinklered buildings</i> .
DE25	3.3.1.5.(1)(c); Table 3.3.1.5.	In Column 2, maximum area of room or <i>suite</i> to be unlimited.
DE26	3.3.1.9.(1)	Existing width of <i>public corridors</i> of not less than 914 mm is acceptable.
DE27	3.3.1.10.; 3.3.1.11.	Existing door swings may remain in <i>heritage buildings</i> , existing or being restored, with no change in <i>major occupancy</i> and with <i>occupant load</i> no greater than 100.
DE28	3.3.1.12.	Existing doors acceptable, provided not less than 600 mm wide.
DE29	3.3.1.15.	Existing curved or spiral stairs acceptable.
DE30	3.3.1.16.	Existing non-conforming capacities of <i>access to exits</i> are acceptable, provided that:  (a) the increase in <i>occupant load</i> is not greater than 15%, (b) the corridor <i>fire separations</i> are rated to Code, and (c) early warning systems are provided, or (d) there are sprinklers, plus <i>smoke alarms</i> in <i>suites</i> .
DE31	3.3.1.17.	Does not apply to <i>heritage buildings</i> .
DE32	3.3.1.18.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
DE33	3.2.3.16.	Need not comply for "E" <i>occupancy</i> .
DE34	3.3.5.4.; 3.3.5.7.(3)	Need not comply where a gasketed door and self closer are provided in the existing <i>fire separation</i> .
DE35	3.4.1.4.	The following types of <i>exits</i> may also be used for <i>buildings</i> not over 6 storeys in <i>building height</i> :  (a) Connected balconies, which connect across <i>firewalls</i> , or connect to another <i>exit</i> , or with access to grade.  (b) Areas of refuge where fire service rescue is possible and that comply with Measure L of Sentences (4) to (10), (18), and 20(a), (b) and (d) in the Supplementary Guidelines.
DE36	3.4.1.8.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
DE37	3.4.2.5.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> .
DE38	3.4.3.1.(2)	Existing width of <i>exits</i> acceptable provided the <i>occupant load</i> is not more than 15% above the <i>exit</i> capacity.
DE39	3.4.3.5.	Existing acceptable.
Col. 1	2	3

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE40	3.4.3.6.	Existing headroom clearance of not less than 1 980 mm is acceptable.
DE41	3.4.4.1.	<i>Fire separations of exits permitted in buildings:</i> - 30 min, up to 3 storeys in building height; - 45 min, up to 6 storeys in building height; - 1 h, over 6 storeys in building height.
DE42	3.4.4.4.(7)	Existing washrooms opening directly into exit stairwell shall be separated from exit stairwell by a 45 min closure.
DE43	3.4.5.1.(2) and (7)	Existing illuminated legible exit signs are acceptable.
DE44	3.4.6.1.	Existing acceptable.
DE45	3.4.6.2.	Existing acceptable, if visually apparent.
DE46	3.4.6.3.(1) and (2)	Existing acceptable with rise no greater than 3.7 m.
DE47	3.4.6.3.(3) and (4)	Existing acceptable.
DE48	3.4.6.4.(2) to (8)	Existing acceptable.
DE49	3.4.6.5.(1) to (5)	Existing acceptable.
DE50	3.4.6.6.(1)	Existing acceptable.
DE51	3.4.6.7.; 3.4.6.8.	Existing acceptable.
DE52	3.4.6.9.(2) to (6)	Existing acceptable.
DE53	3.4.6.10.(1) and (2)	Existing acceptable.
DE54	3.4.6.11.	Existing acceptable in public heritage buildings or a change in occupancy with no increase in occupant load.
DE55	3.4.6.12.; 3.4.6.13.	Existing acceptable.
DE56	3.4.6.15.	Existing functionally operable panic hardware acceptable.
DE57	3.4.7.2.	Combustible fire escapes which are protected from fire in accordance with Sentence 3.2.3.13.(2) are permitted or may be reconstructed or recreated (as in the case of a heritage building.)
DE58	3.5.1.	Existing acceptable except where building is classified under Subsection 3.2.6.
DE59	3.6.2.1.(5)	Existing fire separation of not less than 30 min is acceptable
DE60	3.6.2.3.	Existing acceptable where explosion-resistant construction or venting is provided.
DE61	3.6.2.7.	Existing acceptable.
DE62	3.6.2.8.(1)	2 h fire separation acceptable.
DE63	3.6.3.1.(1) to (5)	45 min fire separation acceptable up to 6 storeys.
DE64	3.6.3.3.	(a) Where 2 h fire separation is required, 1 h is acceptable. (b) Where 1 h fire separation is required, 45 min is acceptable. (c) Existing need not comply with Sentence 3.5.3.3.(5).
DE65	3.6.4.2.	Ceiling fire separation need not be fire-resistance rated where sprinklering, subject to C.A. DE24, of fire compartments on both sides of vertical fire separation is provided and where such fire separation is not required to exceed 1 h.
DE66	3.6.4.3.(1)	Existing to meet flame-spread rating of 25 or to be sprinklered.
DE67	3.6.4.4.; 3.6.4.5.; 3.6.4.6.	Existing access acceptable.
DE68	3.7.4.2.	Where the occupant load is increased by more than 15% above the capacity of the existing facilities, facilities to be added to accommodate the increase.
Col. 1	2	3



NUMBER	PART 4 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE69	4.1.9.	The requirements under this Subsection do not apply.
Col. 1	2	3

NUMBER	PART 6 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE70	6.2.3.2.; 6.2.3.5.; 6.2.3.6.; 6.2.3.12.	Existing acceptable.
DE71	6.2.3.17.	Existing openings, grilles and diffusers acceptable, subject to approval of <i>chief building official</i> .
DE72	6.2.4.2.(1); 6.2.4.5.(1) to (3)	Existing acceptable.
DE73	6.2.4.5.(10)	Where the duct system is being altered, lesser amounts and extent of insulation will be permitted.
DE74	6.2.9.2.	Existing acceptable.
Col. 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE75	9.3.2.1.	Sound used lumber may be acceptable for reuse without a grade stamp provided that: <ul style="list-style-type: none"> <li>(a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage,</li> <li>(b) where the grade or species is unknown, the minimum grade shall apply for span table use, and</li> <li>(c) lumber has not been subjected to termite infestation.</li> </ul>
DE76	9.6.3.2.	Except where required in Article 9.9.2.7. existing acceptable, provided not less than 600 mm.
DE77	9.6.5.	Existing acceptable.
DE78	9.6.6.2.; 9.6.6.3.	Existing doors and sidelights being reused or relocated need not conform if identified or protected.
DE79	9.7.1.7.	Existing acceptable.
DE80	9.7.5.	Existing acceptable.
DE81	9.8.1. to 9.8.4.	Replacement or extension of existing stair systems shall be exempt from the provisions of these Articles, except that they shall have: <ul style="list-style-type: none"> <li>(a) a minimum width between wall faces of 700 mm, and</li> <li>(b) a minimum clear height over tread nosing or landing of 1 800 mm.</li> </ul>
DE82	9.8.2.2.	Existing acceptable.
DE83	9.8.5.2.	Existing curved or spiral stairs acceptable.
DE84	9.8.6.	Existing ramps acceptable, where practical.
DE85	9.8.7.	Existing handrails acceptable, unless considered unsafe by <i>chief building official</i> .
DE86	9.8.8.	Existing <i>guards</i> acceptable, unless considered unsafe by <i>chief building official</i> .
DE87	9.9.1.1.	Existing acceptable.
DE88	9.9.2.2.	The following types of <i>exits</i> may also be used: <ul style="list-style-type: none"> <li>(a) connected balconies, which connect across <i>firewalls</i>, or connect to another <i>exit</i>, or with access to grade,</li> <li>(b) areas of refuge, approved by the <i>chief building official</i>, where fire service rescue is possible, or</li> <li>(c) <i>combustible</i> or <i>noncombustible</i> exterior stairways or fire escapes which are protected in accordance with Sentence 3.2.3.12.(2). These may be reconstructed or recreated (as in the case of a <i>heritage building</i>).</li> </ul>
DE89	9.9.2.6.	Existing acceptable, provided that the enclosure has a 45 min <i>fire- resistance rating</i> .
Col. 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE90	9.9.2.7.	Existing acceptable.
DE91	9.9.3.2.	Existing width of <i>exits</i> acceptable.
DE92	9.9.3.3.	Existing width of <i>public corridors</i> of not less than 965 mm is acceptable.
DE93	9.9.3.4.	Existing headroom clearance of not less than 1 950 mm is acceptable.
DE94	9.9.4.2.	30 min <i>fire separation</i> acceptable.
DE95	9.9.5.4.; 9.9.5.5.	Existing acceptable.
DE96	9.9.5.8.	Existing acceptable provided minimum 45 min <i>fire separation</i> and where explosion-resistant <i>construction</i> or venting is provided.
DE97	9.9.6.2.	Existing acceptable.
DE98	9.9.6.3.	Existing headroom clearance of not less than 1 950 mm is acceptable, with existing door heights to be acceptable.
DE99	9.9.6.4.	Existing door widths and heights are acceptable, provided <i>exit</i> widths and heights comply with C.A.'s DE92 and DE93.
DE100	9.9.6.5.	Existing door swings are acceptable. Existing acceptable in <i>public heritage buildings</i> , where approved by <i>chief building official</i> .
DE101	9.9.6.6.(1)	Where <i>exit</i> doors open onto a landing, they shall not extend beyond the face of the first riser.
DE102	9.9.6.10.	Existing functionally operable passage or panic hardware acceptable.
DE103	9.9.7.3.	Maximum area of existing room or <i>suite</i> to be unlimited.
DE104	9.9.8.2.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> and provided <i>fire separations</i> comply with Part 9 of the Code.
DE105	9.9.10.6.	Existing illuminated legible signs are acceptable for <i>exit</i> signs, if approved by <i>chief building official</i> .
DE106	9.10.1.1.	Assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
DE107	9.10.1.3.(8)	Existing installations acceptable subject to C.A.'s DE22 and DE24.
DE108	9.10.3.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
DE109	9.10.5.1.	(a) Existing openings in existing wall or ceiling membranes to remain. (b) Existing openings may be moved to another location in the same wall or ceiling, provided the aggregate area of openings does not increase and are not cumulative, and the existing opening is blocked up to provide the same rating as the existing wall or ceiling assembly.
DE110	9.10.6.2.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of the member sizes listed in Part 3.
DE111	9.10.7.	Existing acceptable for <i>heritage buildings</i> , subject to approval of <i>chief building official</i> .
DE112	9.10.8.1.	Existing 30 min rating acceptable.
DE113	9.10.8.2.	Existing sprinkler systems complying with C.A. DE24 and Sentence 3.2.2.17.(1) are acceptable.
DE114	9.10.8.3.	Existing acceptable, subject to approval of the <i>chief building official</i> .
DE115	9.10.8.7.	30 min rating acceptable.
DE116	9.10.9.7.; 9.10.9.9.	Existing acceptable in existing <i>fire separations</i> .
Col. 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE117	9.10.9.10.(1)	Ceiling <i>fire separation</i> need not be fire-resistance rated where sprinklering of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
DE118	9.10.9.11.(2)	In lieu of the 2 h <i>fire separation</i> , sprinklers may be used in the <i>mercantile occupancy</i> with a 1 h <i>fire separation</i> .
DE119	9.10.9.13.	30 min <i>fire separation</i> acceptable.
DE120	9.10.9.15.(1)	30 min <i>fire separation</i> acceptable.
DE121	9.10.9.15.(3)	Need not comply for <i>mercantile occupancy</i> .
DE122	9.10.10.3.(1)	45 min <i>fire separation</i> acceptable.
DE123	9.10.12.1.	Need not comply for <i>mercantile occupancy</i> .
DE124	9.10.13.1.	Existing functional <i>closures</i> are acceptable subject to C.A. DE8.
DE125	9.10.13.2.	Existing acceptable.
DE126	9.10.13.3.	Existing acceptable, provided that wood door frames are secured with hinge screws going through frame into the stud.
DE127	9.10.13.5.	Existing acceptable. Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass, at least 6 mm thick, is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
DE128	9.10.13.6.	Existing steel door frames acceptable.
DE129	9.10.13.7.	Existing glass block acceptable.
DE130	9.10.13.8.	Existing sizes acceptable.
DE131	9.10.13.9.	Existing operable latches acceptable.
DE132	9.10.13.10.(1)	Existing functionally operable self-closing device acceptable.
DE133	9.10.13.10.(2)	Existing functionally operable self-closing devices acceptable in "E" occupancy.
DE134	9.10.13.11.	Existing operable self-releasing electromagnetic and fusible link hold-open devices acceptable.
DE135	9.10.13.12.	Existing swings acceptable.
DE136	9.10.14.1.	Existing windows  (a) existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i> , lies no closer than 300 mm from a window in such other <i>building</i> , where the "opposite" window is less than 2 400 mm from the opposite new opening, and  (b) except relocation of units, to be restricted to the same <i>fire compartment</i> and shall conform to the requirements of Articles 3.2.3.14. or 9.10.12.4. where applicable, or  (c) where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i> , such existing openings are allowed to be relocated provided:  (i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or  (ii) the <i>building</i> is <i>sprinklered</i> .
DE137	9.10.15.2.(1)	Where balloon framing is exposed during renovation, fire stopping shall be provided.
DE138	9.10.17.	(a) subject to approval by the <i>chief building official</i> , existing fire alarm system may remain where the Fire Safety Plan for the <i>building</i> addresses the intent of 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and  (b) extension of an existing system must ensure continuity and compatibility.
DE139	9.10.19.	Existing access acceptable.
DE140	9.18.2.	Existing access acceptable.
Col. 1	2	3



NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
DE141	9.18.3.	Existing vents and ventilation acceptable.
DE142	9.19.	Existing acceptable.
DE143	9.20.2.2.	Used masonry may be reused for patching and filling openings to match adjacent work. Used interior brick may not be used for exterior applications.
DE144	9.20.3.	Archaic mortars may be used to match existing jointing.
DE145	9.20.4.1.	Sound jointing techniques may be employed to match existing archaic joints.
DE146	9.20.12.1.	Corbelling may be constructed to match existing or original details, provided that it is structurally adequate for the proposed use.
DE147	9.21.	Existing acceptable, provided the products of combustion are safely vented and provided no fire hazard is created.
DE148	9.22.1. to 9.22.7.	Sound period materials, designs and techniques may be employed in recreated fireplaces, provided no fire hazard is created. Existing need not comply with Article 9.22.1.4.
DE149	9.23.	Existing acceptable.
DE150	9.24.	Existing acceptable.
DE151	9.25.2.1.(5) to (7)	Existing acceptable.
DE152	9.26.	Existing acceptable, except when removing and replacing shingles, comply with eave protection requirements in Subsection 9.26.5.
DE153	9.27.	Existing acceptable.
DE154	9.28.	All replacement or recreation of existing stucco may be compatible with the existing materials and application.
DE155	9.29.4.	Existing acceptable. All replacement or recreation of existing plaster may be compatible with the existing materials and application.
DE156	9.33.1.2.	Sound, used or antique <i>appliances</i> are acceptable, provided that: <ul style="list-style-type: none"> <li>(a) visual examination shows no excessive weakening by corrosion or other damage,</li> <li>(b) no structural parts are missing,</li> <li>(c) no cracks are present in the components intended to support the <i>appliance</i> or enclose the fire, and</li> <li>(d) loading and ash removal door latches and hinges hold the door closed.</li> </ul>
DE157	9.34.4.1.; 9.34.4.3.	Existing meter mounting devices and overhead and underground supply need not be relocated to these requirements during renovations.
DE158	9.34.4.4.; 9.34.4.5.	Existing acceptable.
DE159	9.37.	Sound used materials shall be acceptable for reuse, subject to the following limitations: <ul style="list-style-type: none"> <li>(a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage, and</li> <li>(b) logs have not be subjected to termite infestation.</li> </ul>
Col. 1	2	3

Table 11.5.1.1.F.

## Compliance Alternatives for Industrial Occupancies

Forming Part of Article 11.5.1.1.

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F1	3.1.4.6.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of member sizes listed in Part 3.
F2	3.1.5.2.; 3.1.5.3.; 3.1.5.4.; 3.1.5.6.	Existing acceptable.
F3	3.1.5.7.; 3.1.5.8.; 3.1.5.9.; 3.1.5.10.	Except for exposed foamed plastics, existing acceptable for "F2" and "F3" <i>occupancies</i> . To match existing, materials may be added from on or off site.
Col. 1	2	3

NUMBER	PART 3 REQUIREMENTS	PART II COMPLIANCE ALTERNATIVE
F4	3.1.5.14.; 3.1.5.15.; 3.1.5.16.; 3.1.5.20.; 3.1.5.22.	Existing acceptable.
F5	3.1.7.1.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
F6	3.1.7.5.(3)	Existing assemblies required to be of <i>noncombustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
F7	3.1.8.1.(2); 3.1.8.6.	Existing functional <i>closures</i> are acceptable and may be relocated within the same <i>fire separation</i> .
F8	3.1.8.5.(2)	<ol style="list-style-type: none"> <li>(a) existing functional and sound doors in existing <i>buildings</i> that are either hollow metal or kalamein and containing wired glass at least 6 mm thick and conforming to Sentence 3.1.8.14.(2) are permitted in lieu of doors not required to exceed 45 min,</li> <li>(b) all existing functional and sound hollow metal or kalamein doors which carry existing 1.5 h labels are acceptable in lieu of current 1.5 h labels and may contain wired glass panels not exceeding 0.0645 m<sup>2</sup>, at least 6 mm thick and conforming to Sentence 3.1.8.14.(2), and</li> <li>(c) every fire door, window assembly or glass block used as a <i>closure</i> in a required <i>fire separation</i> shall be installed in conformance with good engineering practice.</li> </ol>
F9	3.1.8.7.; 3.1.8.9.	<i>Fire dampers</i> or <i>fire stop flaps</i> are not required to be installed in existing ducts at penetrations of existing <i>fire separations</i> .
F10	3.1.8.10.(1)	For existing unlabelled doors in existing <i>buildings</i> , at least 45 mm solid core wood or metal clad are acceptable.
F11	3.1.8.11.(1)	Existing functionally operable devices acceptable for "F2" and "F3" <i>occupancies</i> .
F12	3.1.8.13.	Existing functionally operable latching devices, excluding draw bolts, are acceptable.
F13	3.1.8.14.	Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass, at least 6 mm thick, is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
F14	3.1.8.15.; 3.1.5.16.; 3.1.8.17.	Existing acceptable.
F15	3.1.11.	Where the concealed space is being materially altered, smoke or heat detection in that space in lieu of firestops and tied into fire alarm system is acceptable.
F16	3.2.2.17.(1)(b) and (c)	Existing sprinkler systems in 1 <i>storey buildings</i> need not comply.
F17	3.2.3.	Existing need not comply with Article 3.2.3.17. For "F2" occupancy. Existing windows <ol style="list-style-type: none"> <li>(a) existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i>, lies not closer than 300 mm from a window in such other <i>building</i>, where the "opposite" window is less than 2 400 mm from the opposite new opening, and</li> <li>(b) except relocation of units, shall be restricted to the same <i>fire compartment</i> and shall conform to the requirements of Articles 3.2.3.13. or 9.10.12.4. where applicable, or</li> <li>(c) where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i>, such existing openings are allowed to be relocated provided: <ol style="list-style-type: none"> <li>(i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or</li> <li>(ii) the <i>building</i> is <i>sprinklered</i>.</li> </ol> </li> </ol>
F18	3.2.3.16.	Need not comply for "F2" <i>occupancy</i> .
Col. 1	2	3

NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F19	3.2.4.	(a) existing fire alarm system may remain except that Article 3.2.4.5. does not apply where the "Fire Safety Plan" (as described in Subsection 2.8.2. of the Ontario Fire Code) for the <i>building</i> addresses the intent of Subsection 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and  (b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.
F20	3.2.5.1; 3.2.5.2.	Existing acceptable.
F21	3.2.5.3.	Existing access acceptable.
F22	3.2.5.4.; 3.2.5.5.; 3.2.5.6.	Existing acceptable provided the <i>building</i> is <i>sprinklered</i> .
F23	3.2.5.7.	Does not apply, except where a change in <i>major occupancy</i> occurs from a lesser <i>hazard index</i> .
F24	3.2.5.13.	Existing sprinkler systems in existing <i>buildings</i> that do not conform to NFPA 13 may be altered, added to, or extended from the existing system without complying with NFPA 13, provided the system is operational and adequate with respect to coverage, water supply and controls, and provided the system is evaluated by a qualified designer.
F25	3.2.6. Additional requirements for high buildings.	Reserved
F26	3.2.9.	May not apply to <i>buildings</i> 6 storeys and less of "F2" and "F3" <i>occupancies</i> . Does not apply to <i>sprinklered buildings</i> .
F27	3.3.1.4.(1)	30 min is acceptable to separate <i>public corridors</i> or <i>exits</i> in <i>buildings</i> not exceeding 6 storeys in <i>building height</i> , except that 45 min is required for <i>exits</i> in <i>buildings</i> exceeding 3 storeys in <i>building height</i> . Except for <i>exits</i> , no rating required where <i>floor areas</i> are <i>sprinklered</i> .
F28	3.3.1.5.(1)(c); Table 3.3.1.5.	For "F2" and "F3" <i>occupancies</i> in Column 2, maximum area of room or <i>suite</i> to be unlimited.
F29	3.3.1.9.	Existing width of <i>public corridors</i> of not less than 914 mm is acceptable.
F30	3.3.1.9.(13) and (14)	Need not comply where connected balcony or area of refuge is provided complying with C.A. F37.
F31	3.3.1.10.; 3.3.1.11.	Existing door swings may remain in <i>heritage buildings</i> , existing or being restored, with no change in <i>major occupancy</i> and with <i>occupant load</i> no greater than 100.
F32	3.3.1.12.	Existing doors acceptable, provided not less than 600 mm wide.
F33	3.3.1.15.	Existing curved or spiral staircase acceptable.
F34	3.3.1.18.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
F35	3.3.5.4.(2), (3), and (5)	Existing acceptable.
F36	3.3.5.6.; 3.3.5.7.	Need not comply where a gasketed door and self closer are provided in the existing <i>fire separation</i> .
F37	3.4.1.4.	For "F2" and "F3" <i>occupancies</i> , the following types of <i>exits</i> may also be used for <i>buildings</i> not over 6 storeys in <i>building height</i> :  (a) connected balconies, which connect across firewalls, or connect to another <i>exit</i> , or with access to grade.  (b) areas of refuge where fire service rescue is possible and that comply with Measure L in Sentences (4) to (10) and (20)(a), (b) and (d) in the Supplementary Guidelines.
F38	3.4.1.8.	Existing stained, etched, bevelled, leaded or figured glass acceptable.
F39	3.4.2.5.(1)	For "F2" and "F3" <i>occupancies</i> , existing travel distance acceptable where the <i>floor area</i> is <i>sprinklered</i> .
F40	3.4.3.1.(2)	For "F2" and "F3" existing width of <i>exits</i> acceptable provided the <i>occupant load</i> in not more than 15% above the <i>exit</i> capacity.
F41	3.4.3.5.	Existing acceptable.
F42	3.4.3.6.	Existing headroom clearance of not less than 1'980 mm is acceptable.
Col. 1	2	3



NUMBER	PART 3 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F43	3.4.4.1.	<i>Fire separations of exits permitted in buildings:</i> - 30 min, up to 3 storeys in building height; - 45 min, up to 6 storeys in building height; - 1 h, over 6 storeys in building height.
F44	3.4.4.4.(7)	Existing washrooms opening directly into <i>exit</i> stairwell shall be separated from <i>exit</i> stairwell by 45 min <i>closure</i> .
F45	3.4.5.1.(2) and (7)	Existing illuminated legible <i>exit</i> signs are acceptable.
F46	3.4.6.1.	Existing acceptable.
F47	3.4.6.2.	Existing acceptable, if visually apparent.
F48	3.4.6.3.(1) and (2)	Existing acceptable with rise no greater than 3.7 m.
F49	3.4.6.3.(3) and (4)	Existing acceptable.
F50	3.4.6.4.(2) to (8)	Existing acceptable.
F51	3.4.6.5.(1) to (5)	Existing acceptable.
F52	3.4.6.6.(1)	Existing acceptable.
F53	3.4.6.7.; 3.4.6.8.	Existing acceptable.
F54	3.4.6.9.(2) to (6)	Existing acceptable.
F55	3.4.6.10.(1) and (2)	Existing acceptable.
F56	3.4.6.11.	For "F2" and "F3" existing acceptable in <i>public heritage buildings</i> or a change in <i>occupancy</i> with no increase in <i>occupant load</i> .
F57	3.4.6.12.; 3.4.6.13.	Existing acceptable.
F58	3.4.6.15.	Existing functionally operable panic hardware acceptable.
F59	3.4.7.2.	<i>Combustible</i> fire escapes which are protected from fire in accordance with Sentence 3.2.3.13.(2) are permitted or may be reconstructed or recreated (as in the case of a <i>heritage building</i> ).
F60	3.5.1.	Existing acceptable, except where <i>building</i> classified under Subsection 3.2.6. and except where existing elevators are "open" type.
F61	3.6.2.1.(5)	45 min <i>fire separation</i> acceptable.
F62	3.6.2.3.	Existing acceptable where explosion-resistant <i>construction</i> or venting is provided.
F63	3.6.2.7.	Existing acceptable.
F64	3.6.2.8.(1)	2 h <i>fire separation</i> acceptable.
F65	3.6.3.1.(1) to (5)	45 min <i>fire separation</i> acceptable up to 6 storeys.
F66	3.6.3.3.	(a) where 2 h <i>fire separation</i> is required, 1 h is acceptable. (b) where 1 h <i>fire separation</i> is required, 45 min is acceptable. (c) existing need not comply with Sentences 3.5.3.3.(4) and (5).
F67	3.6.4.2.	Ceiling <i>fire separation</i> need not be fire-resistance rated where sprinklering, subject to C.A. F24, of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
F68	3.6.4.3.(1)	Existing to meet <i>flame-spread</i> rating of 25 or to be <i>sprinklered</i> .
F69	3.6.4.4.; 3.6.4.5.; 3.6.4.6.	Existing access acceptable.
F70	3.7.4.2.	Where the <i>occupant load</i> is increased by more than 15% above the capacity of the existing facilities, facilities to be added to accommodate the increase.
Col. 1	2	3

NUMBER	PART 4 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F71	4.1.9.	The requirements under this Subsection do not apply.
Col. 1	2	3

NUMBER	PART 6 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F72	6.2.2.3.(1), (3), and (4)	<i>Storage garages</i> with a total capacity of less than 20 motor vehicles need not have mechanical ventilating systems if the downward slope of the floor to the outside door is 1 in 120 and the garage floor is above outside ground level.
F73	6.2.3.2.; 6.2.3.5.; 6.2.3.6.; 6.2.3.12.	Existing acceptable for "F2" and "F3" <i>occupancies</i> .
F74	6.2.3.17.	Existing openings, grilles and diffusers acceptable.
F75	6.2.4.2.(1); 6.2.4.5.(1) to (3)	Existing acceptable.
F76	6.2.4.5.(10)	Where the duct system is being altered, lesser amounts and extent of insulation will be permitted.
F77	6.2.9.2.	Existing acceptable for "F2" and "F3" <i>occupancies</i> .
Col. 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F78	9.3.2.1.	Sound used lumber may be acceptable for reuse without a grade stamp provided that: <ul style="list-style-type: none"> <li>(a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage,</li> <li>(b) where the grade or species is unknown, the minimum grade shall apply for span table use, and</li> <li>(c) lumber has not been subjected to termite infestation.</li> </ul>
F79	9.6.3.2.	Except where required in Article 9.9.2.7. existing acceptable, provided not less than 600 mm.
F80	9.6.5.	Existing acceptable.
F81	9.6.6.2.; 9.6.6.3.	Existing doors and sidelights being reused or relocated need not conform if identified or protected.
F82	9.7.1.7.	Existing acceptable.
F83	9.7.5.	Existing barriers acceptable.
F84	9.8.1. to 9.8.4.	Replacement or extension of existing stair systems shall be exempt from the provisions of these Articles, except that they shall have: <ul style="list-style-type: none"> <li>(a) a minimum width between wall faces of 700 mm, and</li> <li>(b) a minimum clear height over tread nosing or landing of 1 800 mm.</li> </ul>
F85	9.8.5.2.	Existing curved or spiral stairs acceptable.
F86	9.8.6.	Existing ramps acceptable, where practical.
F87	9.8.7.	Existing handrails acceptable, unless considered unsafe by <i>chief building official</i> .
F88	9.8.8.	Existing <i>guards</i> acceptable, unless considered unsafe by <i>chief building official</i> .
F89	9.8.9.5.(2)	Existing acceptable.
F90	9.9.1.1.	Existing acceptable.
F91	9.9.2.2.	The following types of <i>exits</i> may also be used: <ul style="list-style-type: none"> <li>(a) connected balconies, which connect across <i>firewalls</i>, or connect to another <i>exit</i>, or with access to grade,</li> <li>(b) areas of refuge approved by the <i>chief building official</i> where fire service rescue is possible, or</li> <li>(c) <i>combustible</i> or <i>noncombustible</i> exterior stairways or fire escapes which are protected in accordance with Sentence 3.2.3.13.(2). These may be reconstructed or recreated (as in the case of a <i>heritage building</i>).</li> </ul>
F92	9.9.2.6.	Existing acceptable, provided that the enclosure has a 45 min <i>fire-resistance rating</i> .
F93	9.9.2.7.	Existing acceptable.
F94	9.9.3.2.	Existing width of <i>exits</i> acceptable.
Col. 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F95	9.9.3.3.	Existing width of <i>public corridors</i> of not less than 965 mm is acceptable.
F96	9.9.3.4.	Existing headroom clearance of not less than 1 950 mm is acceptable.
F97	9.9.4.2.(1)	30 min <i>fire separation</i> acceptable.
F98	9.9.5.4.; 9.9.6.2.	Existing acceptable.
F99	9.9.5.8.	Existing acceptable provided minimum 45 min <i>fire separation</i> and where explosion-resistant <i>construction</i> or venting is provided.
F100	9.9.6.3.	Existing headroom clearance of not less than 1 950 mm is acceptable, with existing door heights to be acceptable.
F101	9.9.6.4.	Existing door widths and heights are acceptable, provided <i>exit</i> widths and heights comply with C.A.'s F95 and F96.
F102	9.9.6.5.	Existing door swings acceptable. Existing acceptable in <i>public heritage buildings</i> , where approved by <i>chief building official</i> .
F103	9.9.6.6.(1)	Where <i>exit</i> doors open onto a landing, such doors shall not extend beyond the face of the first riser.
F104	9.9.6.10.	Existing functionally operable passage or panic hardware acceptable.
F105	9.9.7.3.	Maximum area of existing room or <i>suite</i> does not apply.
F106	9.9.8.2.(1)	Existing travel distance acceptable where <i>floor area</i> is <i>sprinklered</i> and provided <i>fire separations</i> comply with Part 9 of the Code.
F107	9.9.10.6.	Existing illuminated legible signs are acceptable for <i>exit</i> signs, if approved by <i>chief building official</i> .
F108	9.10.1.1.	Assemblies required to be of <i>combustible construction</i> may be supported by <i>combustible construction</i> having at least the same <i>fire-resistance rating</i> as that supported.
F109	9.10.1.3.(8)	Existing acceptable subject to C.A.'s F24 and F26.
F110	9.10.3.	<i>Fire-resistance ratings</i> may also be used where they are based on: <ol style="list-style-type: none"> <li>1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies.</li> <li>2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194.</li> <li>3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207.</li> <li>4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.</li> </ol>
F111	9.10.5.1.	Existing openings in existing wall or ceiling membranes to remain. Existing openings may be moved to another location in the same wall or ceiling, provided the aggregate area of openings does not increase and are not cumulative, and the existing opening is blocked up to provide the same rating as the existing wall or ceiling assembly.
F112	9.10.6.2.	Existing <i>heavy timber construction</i> acceptable where <i>construction</i> is within 90% of the member sizes listed in Part 3.
F113	9.10.7.	Existing acceptable for <i>heritage buildings</i> , subject to approval of <i>chief building official</i> .
F114	9.10.8.1.	Existing 30 min rating acceptable.
F115	9.10.8.2.	Existing sprinkler systems complying with C.A. F24 and Sentence 3.2.2.17.(1) are acceptable.
F116	9.10.8.3.	Existing acceptable, subject to approval of <i>chief building official</i> .
F117	9.10.8.7.	30 min rating acceptable.
F118	9.10.9.7.; 9.10.9.9.	Existing acceptable in existing <i>fire separations</i> .
F119	9.10.9.10.(1)	Ceiling <i>fire separation</i> need not be fire-resistance rated where sprinklering of <i>fire compartments</i> on both sides of vertical <i>fire separation</i> is provided and where such <i>fire separation</i> is not required to exceed 1 h.
F120	9.10.9.11.(2)	In lieu of the 2 h <i>fire separation</i> , sprinklers may be used in the <i>medium hazard industrial occupancy</i> with a 1 h <i>fire separation</i> .
Col. 1	2	3



NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F121	9.10.9.13.; 9.10.9.15.(1)	30 min <i>fire separation</i> acceptable.
F122	9.10.10.3.(1)	45 min <i>fire separation</i> acceptable.
F123	9.10.12.1.	Need not comply for <i>medium hazard industrial occupancy</i> .
F124	9.10.13.1.	Existing functional <i>closures</i> are acceptable subject to C.A. F8.
F125	9.10.13.2.	Existing acceptable.
F126	9.10.13.3.	Existing acceptable, provided that wood door frames are secured with hinge screws going through frame into the stud.
F127	9.10.13.5.	Existing wired glass acceptable. Existing transoms or sidelights located in required <i>fire separations</i> may be retained if wired glass, at least 6 mm thick, is securely fixed to a wood frame of at least 50 mm thickness with steel stops. Operable transoms shall be fixed closed.
F128	9.10.13.6.	Existing steel door frames acceptable.
F129	9.10.13.7.	Existing glass block acceptable.
F130	9.10.13.8.	Existing sizes acceptable.
F131	9.10.13.9.	Existing operable latches acceptable.
F132	9.10.13.10.(1)	Existing operable self-closing devices acceptable.
F133	9.10.13.11.	Existing operable self-releasing electromagnetic and fusible link hold-open devices acceptable.
F134	9.10.13.12.	Existing swings acceptable.
F135	9.10.14.1.	Existing windows  (a) existing windows in walls may be relocated to another part of the wall, provided the existing opening is blocked up to provide the same fire rating for the wall, and the projection of the new opening, at a right angle to the property line onto another <i>building</i> , lies no closer than 300 mm from a window in such other <i>building</i> , where the "opposite" window is less than 2 400 mm from the opposite new opening, and  (b) except relocation of units, to be restricted to the same <i>fire compartment</i> and shall conform to the requirements of Articles 3.2.3.13. or 9.10.12.4. where applicable, or  (c) where a <i>building</i> does not satisfy the requirements of Subsection 3.2.3. for the amount of openings facing a yard or space that does not have sufficient <i>limiting distance</i> , such existing openings are allowed to be relocated provided:  (i) such openings are not increased in size and they are protected with wired glass in steel frames conforming to Sentence 3.1.8.14.(2), or  (ii) the <i>building</i> is <i>sprinklered</i> .
F136	9.10.15.2.(1)	Where balloon framing is exposed during renovation, fire stopping shall be provided.
F137	9.10.17.	(a) subject to approval by the <i>chief building official</i> , existing fire alarm system may remain where the Fire Safety Plan for the <i>building</i> addresses the intent of Subsection 3.2.4. (i.e. "stage" system, electrical supervision, detection as required, Fire Department connection, and emergency power supply), and  (b) extension of an existing system must ensure continuity and compatibility, and integrity of the system.
F138	9.10.19.	Existing access acceptable.
F139	9.18.2.	Existing access acceptable.
F140	9.18.3.	Existing vents and ventilation acceptable.
F141	9.19.2.1.	Existing access acceptable.
F142	9.20.2.2.	Used masonry may be reused for patching and filling openings to match adjacent work. Used interior brick may not be used for exterior applications.
F143	9.20.3.	Archaic mortars may be used to match existing jointing.
F144	9.20.4.1.	Sound jointing techniques may be employed to match existing archaic joints.
Col. 1	2	3

NUMBER	PART 9 REQUIREMENTS	PART 11 COMPLIANCE ALTERNATIVE
F145	9.20.12.1.	Corbelling may be constructed to match existing or original details, provided that it is structurally adequate for the proposed use.
F146	9.21.	Existing acceptable, provided the products of combustion are safely vented and provided no fire hazard is created.
F147	9.22.1. to 9.22.7.	Sound period materials, designs and techniques may be employed in recreated fireplaces provided no fire hazard is created. Existing need not comply with Article 9.22.1.4.
F148	9.23.	Existing acceptable.
F149	9.24.	Existing acceptable.
F150	9.25.2.1.(5) to (7)	Existing acceptable.
F151	9.26.	Existing acceptable.
F152	9.27.	Existing acceptable.
F153	9.28.	All replacement or recreation of existing stucco may be compatible with the existing materials and application.
F154	9.29.4.	Existing acceptable. All replacement or recreation of existing plaster may be compatible with the existing materials and application.
F155	9.33.1.2.	Sound, used or antique <i>appliances</i> are acceptable, provided that: <ul style="list-style-type: none"> <li>(a) visual examination shows no excessive weakening by corrosion or other damage,</li> <li>(b) no structural parts are missing,</li> <li>(c) no cracks are present in the components intended to support the <i>appliance</i> or enclose the fire, and</li> <li>(d) loading and ash removal door latches and hinges hold the door closed.</li> </ul>
F156	9.34.4.1.; 9.34.4.3.	Existing meter mounting devices and overhead and underground supply need not be relocated to these requirements during renovations.
F157	9.34.4.4.; 9.34.4.5.	Existing acceptable.
F158	9.37.	Sound used materials shall be acceptable for reuse, subject to the following limitations: <ul style="list-style-type: none"> <li>(a) visual examination shows no excessive weakening by holes, notches, nail splits or other damage, and</li> <li>(b) logs have not been subjected to termite infestation.</li> </ul>
Col. 1	2	3

## Part 12

### Transition, Revocation and Commencement

Section	12.1.	Transition Rule
	12.1.1.	Transition Rule
Section	12.2.	Revocation
	12.2.1.	Revocation
Section	12.3.	Commencement
	12.3.1.	Commencement

## Part 12

### Transition, Revocation and Commencement

#### Section 12.1. Transition Rule

##### 12.1.1. Transition Rule

##### 12.1.1.1. Continuation of Regulation 61 of R.R.O. 1990

(1) Notwithstanding the revocation of Regulation 61 of the Revised Regulations of Ontario, 1990, that Regulation continues in force in respect of *construction*

- (a) for which a permit has been issued before the 16th day of March, 1998, or
- (b) for which the working drawings, plans and specifications are substantially completed before the 16th day of March, 1998, and for which an application for a permit under Regulation 61 of the Revised Regulations of Ontario, 1990 is made before the 15th day of June, 1998

on condition that the *construction* is commenced within six months after the permit is issued.

#### Section 12.2. Revocation

##### 12.2.1. Revocation

##### 12.2.1.1. Revocation

(1) Regulation 61 of the Revised Regulations of Ontario, 1990 and Ontario Regulations 400/91, 158/93, 160/93, 383/94, 20/95 and 395/96 are revoked.

#### Section 12.3. Commencement

##### 12.3.1. Commencement

##### 12.3.1.1. Effective Date

- (1) This Regulation comes into force on March 16, 1998.

48/97





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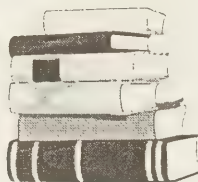
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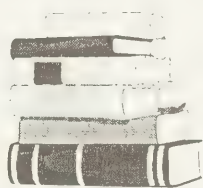
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# The Ontario Gazette La Gazette de l'Ontario

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Toronto

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Le samedi 6 décembre 1997

## Motor Vehicle Transport Act/Truck Transportation Act Loi sur les transports routiers/Loi sur le camionnage

The following are applications for operating licences under the *Truck Transportation Act*, R.S.O. 1990, Chapter T.22, and/or the *Motor Vehicle Transport Act*, 1987, Chapter 35. The applicants have met the fitness requirements pursuant to Section 6 of the *Truck Transportation Act* and/or Section 8(2) of the *Motor Vehicle Transport Act*, 1987 and the provincial transport board and/or the Registrar of Motor Vehicles proposes to issue the licences if no written objection is served on the applicant and filed with the Registrar of Motor Vehicles, within thirty days of this publication.

The following applicants have applied for Authority to offer a transportation service for the carriage of Goods:

On trouvera ci-après la liste des demandes de permis d'exploitation présentées en vertu de la *Loi sur le camionnage*, L.R.O. 1990, chapitre T.22, et/ou la *Loi de 1987 sur les transports routiers*, L.C. 1987, chapitre 35. On a jugé que les personnes ayant présenté ces demandes se conformaient aux critères d'aptitude prévus au paragraphe 8(2) de la *Loi de 1987 sur les transports routiers* et l'office des transports de l'Ontario et/ou le registraire des véhicules automobiles dans les trente jours suivant la publication des présentes.

Les personnes suivantes ont demandé l'autorisation d'offrir des services de transport de marchandises à destination.

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## ONTARIO HIGHWAY TRANSPORT BOARD

### NOTICE

Periodically, temporary applications are filed with the Board. Details of these applications can be made available at anytime to any interested parties by calling (416) 326-6732.

The following are applications for extra-provincial and public vehicle operating licences filed under the *Motor Vehicle Transport Act, 1987*, and the *Public Vehicles Act*. All information pertaining to the applicant *i.e.* business plan, supporting evidence, etc. is on file at the Board and is available upon request.

Any interested person who has an economic interest in the outcome of these applications may serve and file an objection within 29 days of this publication. The objector shall:

1. complete a Notice of Objection Form,
2. serve the applicant with the objection,
3. file a copy of the objection and provide proof of service of the objection on the applicant with the Board,
4. pay the appropriate fee.

Serving and filing an objection may be effected by hand delivery, mail, courier or facsimile. Serving means the date received by a party and filing means the date received by the Board.

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**1370 R. R. #2, Road 116, Danville, Quebec J0A 1A0**

**45574**

Applies for an extra-provincial operating licence as follows:

- I. For the transportation of passengers on a one way chartered trip from:
  - (i) Montreal International Airports at Dorval and Mirabel as authorized by the Province of Quebec from the Ontario/Quebec border crossings to Lester B. Pearson International Airport;
  - (ii) Lester B. Pearson International Airport to the Ontario/Quebec border crossings for furtherance to Montreal International Airports at Dorval and Mirabel as authorized by the Province of Quebec.
  - (iii) points in the Province of Quebec, as authorized by the Province of Quebec from the Ontario/Quebec border crossings to Lester B. Pearson International Airport;
  - (iv) Lester B. Pearson International Airport to the Ontario/Quebec border crossings for furtherance to points in the Province of Quebec as authorized by the Province of Quebec.
- PROVIDED THAT:
  1. all such passengers shall have had a prior movement by air to point of origin and a subsequent movement by air at point of destination;
  2. there shall be no additional charter privileges other than the privileges specifically conferred herein;
- II. For the transportation of passengers on a chartered trip from points in the Province of Quebec as authorized by the Province of Quebec from the Ontario/Manitoba, Ontario/Québec and Ontario/U.S.A. border crossings
  1. to points in Ontario
  2. in transit through Ontario to the Ontario/Manitoba, Ontario/Québec, and Ontario/U.S.A. border crossings for furtherance

and for the return of the same passengers on the same chartered trip to point of origin.

PROVIDED THAT there be no pick-up or discharge of passengers except at point of origin.

3. to points in Ontario on a one way chartered trip without pick-up of passengers in Ontario.

**1165990 Ontario Ltd.** **45576**  
**o/a Pleasure Plus Tours**  
**10 Dean Park Rd., Suite 210, Scarborough, Ont. M1B 3G8**

Applies for an extra-provincial operating licence as follows:

For the transportation of passengers on a chartered trip from points in the Regional Municipalities of Durham, York, Peel, Halton and Hamilton-Wentworth and Metropolitan Toronto to the Ontario/Manitoba, Ontario/Québec and Ontario/U.S.A. border crossings for furtherance to points as authorized by the relevant jurisdiction and for the return of the same passengers on the same chartered trip to point of origin.

PROVIDED THAT there shall be no pick-up or discharge of passengers except at point of origin.

Applies for a public vehicle operating licence as follows:

For the transportation of passengers on a chartered trip from points in the Regional Municipalities of Durham, York, Peel, Halton and Hamilton-Wentworth and Metropolitan Toronto.

**Stephane Talbot & Darryl Foulkes** **45509-A**  
**o/a First Class Limousine Service**  
**1881 Cassells St., North Bay, Ont. P1B 4C8**

Applies for a public vehicle operating licence as follows:

For the transportation of passengers on a chartered trip from points in the District of Nipissing and the Town of Powassan in the District of Parry Sound.

PROVIDED THAT the licensee be restricted to the use of Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54 each having a maximum seating capacity of (12) passengers exclusive of the driver.

Felix D'Mello  
 Board Secretary  
 Secrétaire de la Commission

## Government Notices Respecting Corporations Avis du gouvernement relatifs aux compagnies

### Certificates of Dissolution Certificats de dissolution

NOTICE IS HEREBY GIVEN that a certificate of dissolution under the *Business Corporations Act*, has been endorsed: The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément à la *Loi sur les compagnies*, un certificat de dissolution a été inscrit pour les compagnies suivantes : la date d'entrée en vigueur précède la liste des compagnies visées.

Name of Corporation: Dénomination sociale de la compagnie :	Ontario Corporation Number Numero de la compagnie en Ontario
---	--

<b>1997-11-4</b>	
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S. A. FAY & SONS LIMITED.....	725334
YOUR HOME DELIVERY SERVICE INC.....	1091965

<b>1997-11-5</b>	
CASTLE KEEP RESIDENTIAL PROPERTY MANAGEMENT INC. ....	
754789 ONTARIO INC. ....	754789

<b>1997-11-6</b>	
ARYAN VENTURES LTD.....	719707
CANADIAN OPTICAL GROUP INC.....	845114
DECORTECH CONSTRUCTION AND TRADING LTD. ....	941815
KUNG'S JADE & JEWELLERY CONSULTING INC.....	975381
OLDE COUNTRY COBBLER INC.....	927280
PEONY GIFT INC. ....	1027380

<b>1997-11-10</b>	
ROUSSEAU-HOBBS LIMITED.....	525319
736738 ONTARIO LIMITED .....	736738
978066 ONTARIO INC. ....	978066

<b>1997-11-12</b>	
AIR STORM DISTRIBUTION INC. ....	1103993
LESLIE WONG COMPANY LIMITED.....	91086
SUMMERLEA SIDING CO. INC. ....	776038
1200/1210/1220 SHEPPARD AVENUE EAST LIMITED .....	793600

Name of Corporation: Dénomination sociale de la compagnie :	Ontario Corporation Number Numero de la compagnie en Ontario
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<b>1997-11-13</b>	
FAMS INVESTMENTS LTD.....	825311
MONTESSORI AT DEER PARK INC.....	1193464
THAMES RIVER ENTERPRISES LIMITED .....	203587
1040187 ONTARIO LTD. ....	1040187

<b>1997-11-14</b>	
HMP HOLDINGS INC.....	675923
PHILIP CASUCCI CONSTRUCTION LIMITED .....	150397
UNDERWOOD BUS LINES LTD. ....	1014304

<b>1997-11-17</b>	
CARDA INVESTMENTS LIMITED .....	207581
MARWELL CANADA INC.....	1029084
537499 ONTARIO LIMITED .....	537499
944560 ONTARIO LIMITED .....	944560

<b>1997-11-18</b>	
DISTRIBUTED BY DESIGN INC.....	1042759
E. J. PARKER REAL ESTATE LTD.....	373708
IDEAL FREIGHT LTD.....	1012935
KEISEA INTERNATIONAL (CANADA) INC.....	987740
PROVINCIAL COMMUNICATIONS INC.....	1120569
RAY MARTIN'S AUTO BODY SHOP LIMITED.....	263713
1073141 ONTARIO INC.....	1073141

<b>1997-11-19</b>	
DEMERS PLUMBING LIMITED.....	422206
GLADYS WEALE HOLDINGS LIMITED .....	48204
KAEDE HOLDINGS LIMITED .....	126962
P & W BUILDING MATERIAL SUPPLIES LTD.....	1094796
SHANGA ENTERPRISES INC.....	1041682
SHOWCAN DISTRIBUTORS LIMITED.....	466987
SUN & MOON ENTERPRISE CANADA INC.....	1190410
TEMPO CREDIT REFERRAL SERVICES INC.....	1194164
810280 ONTARIO LTD. ....	810280
964850 ONTARIO INC.....	964850
1026557 ONTARIO INC.....	1026557

<b>1997-11-20</b>	
ALBERT WONG ENTERPRISES CO. LTD.....	709454
CZERNEDA PUBLISHING INC.....	866605



Name of Corporation:	Ontario Corporation Number
Dénomination sociale	Numéro de la
de la compagnie :	compagnie en Ontario

NACHAS INTERNATIONAL INVESTMENTS LTD. .... 624797  
**1997-11-21**  
 ACCLAIM TRADING CO. INC. .... 1171967  
 LENORE SIMPSON PERSONNEL LIMITED ..... 745878  
 536757 ONTARIO LIMITED ..... 536757

CAROL D. KIRSH,  
 Director, Companies Branch  
 Directrice, Direction des compagnies

49/97

## Notice of Default in Complying with the Corporations Information Act Avis de non-observation de la loi sur les renseignements exigés des compagnies et des associations

NOTICE IS HEREBY GIVEN under subsection 241 (3) of the *Business Corporations Act* that unless the corporations listed hereunder comply with the filing requirements under the *Corporations Information Act* within 90 days of this notice orders dissolving the corporation(s) will be issued. The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LES PRÉSENTE que, conformément au paragraphe 241 (3) de la *Loi sur les sociétés par actions*, si les compagnies mentionnées ci-dessous ne se conforment pas aux exigences de dépôt requises par la *Loi sur les renseignements exigés des compagnies et des associations* dans un délai de 90 jours suivant la réception du présent avis, des ordonnances de dissolution seront délivrées contre lesdites compagnies. La date d'entrée en vigueur précède la liste des compagnies visées.

Name of Corporation:	Ontario Corporation Number
Dénomination sociale	Numéro de la
de la compagnie :	compagnie en Ontario

**1997-11-26**  
 YEUNG & KWONG CAPITAL INC. .... 1182938

CAROL D. KIRSH,  
 Director, Companies Branch  
 Directrice, Direction des compagnies

49/97

## Notice of Default in Complying with the Corporations Tax Act Avis d'inobservation de la loi sur les corporations

The Director has been notified by the Minister of Revenue that the following corporations are in default in complying with the *Corporations Tax Act*.

NOTICE IS HEREBY GIVEN under subsection 241 (1) of the *Business Corporations Act*, that unless the corporations listed hereunder comply with the requirements of the *Corporations Tax Act* within 90 days of this notice, orders will be made dissolving the defaulting corporations. All enquiries concerning this notice are to be directed to Corporations Tax Branch, Ministry of Revenue, 33 King Street West, Oshawa, Ontario, L1H 8H6.

Le ministre du Revenu a informé l'administrateur unique que les compagnies suivantes n'avaient pas respecté la *Loi sur l'imposition des personnes morales*.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément au paragraphe 241 (1) de la *Loi sur les compagnies*, si les compagnies citées ci-dessous ne se conforment pas aux prescriptions énoncées par la *Loi sur l'imposition des personnes morales* dans un délai de 90 jours suivant la réception du présent avis, lesdites compagnies se verront dissoutes par décision. Pour tout renseignement relatif au présent avis, veuillez vous adresser à la Direction de l'imposition des compagnies, ministère du Revenu, 33, rue King ouest, Oshawa (Ontario) L1H 8H6.

Name of Corporation:	Ontario Corporation Number
Dénomination sociale	Numéro de la
de la compagnie :	compagnie en Ontario

DONDUR INVESTMENTS LIMITED. .... 213137  
 ERGO SOLAR PUMPS INC. .... 808058  
 EUROSUN INC. .... 542644  
 G. ERIC HANSON ASSOCIATES LIMITED ..... 120024  
 HANNEY FOOD SERVICES INC. .... 908252  
 HING WAH WHOLESALE MEAT LTD. .... 970852  
 JACKSON LEASEHOLDS LIMITED ..... 107643  
 LOSTOCK CORP. .... 460137  
 SOFT-SIDED BED CO. LTD. .... 978761  
 SUTTCO LTD. .... 896085  
 TEAM CARTAGE AND EXPRESS LTD. .... 885627  
 ZULI LALANI ENTERPRISES INC. .... 699871  
 389366 ONTARIO LIMITED ..... 389366  
 740339 ONTARIO INC. .... 740339  
 795522 ONTARIO LIMITED ..... 795522  
 796670 ONTARIO LIMITED ..... 796670  
 881169 ONTARIO LIMITED ..... 881169

CAROL D. KIRSH,  
 Director, Companies Branch  
 Directrice, Direction des compagnies

49/97

## Erratum Notice Avis d'Erreur

Ontario Corporation Number 732920

Vide Ontario Gazette, Vol. 130-33 dated August 16, 1997

NOTICE IS HEREBY GIVEN that the notice issued under section 241 (4) of the *Business Corporations Act* set out in the issue of The Ontario Gazette of August 16, 1997 with respect to the cancellation of the Certificate of Incorporation of **Glasshouse Marketing Inc.** was issued in error and is null and void.

Numéro de société en Ontario : 732920

cf. Gazette de l'Ontario, Vol. 130-33 datée du août 16, 1997

PAR LA PRÉSENTE, nous vous informons que l'avis émis en vertu de l'article 241 (4) de la *Loi sur les compagnies* et énoncé dans la Gazette de l'Ontario du août 16, 1997 relativement à l'annulation du certificat de constitution en personne morale de **Glasshouse Marketing Inc.** a été délivré par erreur et qu'il est nul et sans effet.

CAROL D. KIRSH,  
 Director, Companies Branch  
 Directrice, Direction des compagnies

49/97



**Cancellation of Certificates of Incorporation  
(Corporations Tax Act Defaulters)  
Annulation de certificats de constitution  
en personne morale  
(Non-respect de la Loi sur l'imposition  
des personnes morales)**

NOTICE IS HEREBY GIVEN that, under subsection 241 (4) of the *Business Corporations Act*, the Certificates of Incorporation of the corporations named hereunder have been cancelled by an order dated 10 November 1997 for default in complying with the provisions of the *Corporations Tax Act*, and the said corporations have been dissolved on that date.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément au paragraphe 241(4) de la *Loi sur les compagnies*, les certificats de constitu-

tion en personne morale des compagnies dont les noms apparaissent ci-dessous ont été annulés par décision datée du 10 novembre 1997 pour non-respect des dispositions de la *Loi sur l'imposition des personnes morales* et que la dissolution des compagnies concernées prend effet à la date susmentionnée :

Name of Corporation	Ontario
Dénomination sociale de la compagnie	Corporation Number Numéro de la compagnie en Ontario
NATHAN CONSULTING INC. ....	493600

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

49/97

**Insurance Act  
Loi sur les assurances**

**1998 Indexation Percentage, Revised Deductibles and Monetary Amounts  
for Automobile Insurance under the *Insurance Act* and the *Statutory Accident Benefits  
Schedule - Accidents After December 31, 1993 And Before November 1, 1996***

INDEXATION PERCENTAGE			
Section reference in the <i>Insurance Act</i>	Description	Amount 1997	Amount 1998
268.1	indexation percentage	1.5%	1.6%

DEDUCTIBLE AMOUNTS			
Section reference in the <i>Insurance Act</i>	Description	Amount 1997	Amount 1998
267.1(8)3	non-pecuniary loss deductible	\$10,404.22	\$10,570.69
	<i>Family Law Act</i> deductible	\$5,202.11	\$5,285.34

MONETARY AMOUNTS			
Section reference in the <i>SABS</i>	Description	Amount 1997	Amount 1998
10(9)	maximum weekly income replacement benefit	\$1,040.43	\$1,057.08
15(5)	Average Weekly Earnings for Ontario	\$636.93	\$644.00
16(1)(a)	lump sum benefit for each year of elementary school	\$2,080.84	\$2,114.13
16(1)(b)	lump sum benefit for each year of secondary school	\$4,161.68	\$4,228.27
	lump sum benefit for each semester of secondary school	\$2,080.84	\$2,114.13
16(1)(c)	lump sum benefit for each year of post-secondary school	\$8,323.38	\$8,456.55
	lump sum benefit for each semester of post-secondary school	\$4,161.68	\$4,228.27

MONETARY AMOUNTS			
Section reference in the SABS	Description	Amount 1997	Amount 1998
18(5)	weekly caregiver benefit for first person	\$260.10	\$264.26
	weekly caregiver benefit for each additional person	\$52.02	\$52.85
28(4)	maximum weekly loss of earning capacity benefit	\$1,040.43	\$1,057.08
32(5)	maximum sum of weekly loss of earning capacity benefit and weekly supplement	\$1,040.43	\$1,057.08
46(1)	maximum limit on supplementary medical benefits and rehabilitation benefits	\$1,040,421.69	\$1,057,068.44
47(4)	maximum monthly attendant care benefit (all insureds)	\$3,121.27	\$3,171.21
47(5)	maximum monthly attendant care benefit (catastrophic injuries)	\$6,242.53	\$6,342.41
47(6)	maximum monthly attendant care benefit (multiple, catastrophic injuries)	\$10,404.22	\$10,570.69
47(7)	maximum monthly attendant care benefit (severe brain injuries with violent behaviour)	\$10,404.22	\$10,570.69
50(10)	hourly rate for personal attendant care (when using Form 1)	\$9.10	\$9.25
	hourly rate for skilled attendant care (when using Form 1)	\$14.57	\$14.80
51(1)(b)	death benefit to spouse where insured would not have qualified for income replacement benefits	\$52,021.08	\$52,853.42
51(4)(a)	death benefit to dependant	\$10,404.22	\$10,570.69
51(4)(b)	death benefit to former spouse	\$10,404.22	\$10,570.69
51(5)	death benefit where insured was a dependant	\$10,404.22	\$10,570.69
51(8)	minimum death benefit to spouse	\$52,021.08	\$52,853.42
	maximum death benefit to spouse	\$208,084.34	\$211,413.69
52(2)	funeral benefit	\$6,242.53	\$6,342.41
54(4)	weekly dependant care expenses for first dependant	\$78.03	\$79.28
	weekly dependant care expenses for each additional dependant	\$26.01	\$26.43
54(5)	maximum for weekly dependant care expenses	\$156.07	\$158.57

**1998 Indexation Percentage for Statutory Accident Benefits under the  
Statutory Accident Benefits Schedule - Accidents on or after November 1, 1996**

The 1998 indexation percentage is 1.6%. This indexation percentage should be used on January 1, 1998 and applied, in accordance with the "Optional Indexation Benefit Guideline" - October 28, 1996, to the benefit amounts and monetary limits for insured persons who have purchased the optional indexation coverage and had accidents that occurred after October 31, 1996.

**Franchises et montants pécuniaires révisés de 1998  
pour l'assurance-automobile en vertu de la *Loi sur les assurances* et  
l'Annexe sur les *indemnités d'accident légales* - Accidents survenus après le 31  
décembre 1993 mais avant le 1<sup>er</sup> novembre 1996**

POURCENTAGE D'INDEXATION			
Article de la <i>Loi sur les assurances</i>	Description	Montant 1997	Montant 1998
268.1	pourcentage d'indexation	1,5%	1,6%

FRANCHISES			
Article de la <i>Loi sur les assurances</i>	Description	Montant 1997	Montant 1998
267.1(8) 3	franchise pour perte non pécuniaire	10 404,22 \$	10 570,69 \$
	franchise en vertu de la <i>Loi sur le droit de la famille</i>	5 202,11 \$	5 285,34 \$

MONTANTS PÉCUNIAIRES			
Article de l'Annexe sur les <i>indemnités d'accident légales</i>	Description	Montant 1997	Montant 1998
10 (9)	indemnité hebdomadaire maximale de remplacement de revenu	1 040,43 \$	1 057,08 \$
15 (5)	rémunération hebdomadaire moyenne pour l'Ontario	636,93 \$	644,00 \$
16 (1) (a)	indemnité forfaitaire pour chaque année d'études primaires	2 080,84 \$	2 144,13 \$
16 (1) (b)	indemnité forfaitaire pour chaque année d'études secondaires	4 161,68 \$	4 228, 27 \$
	indemnité forfaitaire pour chaque semestre d'études secondaires	2 080,84 \$	2 114,13 \$
16 (1) (c)	indemnité forfaitaire pour chaque année d'études postsecondaires	8 323,38 \$	8 456,55 \$
	indemnité forfaitaire pour chaque semestre d'études postsecondaires	4 161,68 \$	4 228,27 \$
18 (5)	indemnité hebdomadaire de soignant pour la première personne	260,10 \$	264,26 \$
	indemnité hebdomadaire de soignant pour chaque personne supplémentaire	52,02 \$	52,85 \$
28 (4)	indemnité hebdomadaire maximale pour perte de capacité de gain	1 040,43 \$	1 057,08 \$
32 (5)	somme maximale de l'indemnité hebdomadaire pour perte de capacité de gain et du supplément hebdomadaire	1 040,43 \$	1 057,08 \$
46 (1)	montant maximal des indemnités complémentaires pour frais médicaux et des indemnités de réadaptation	1 040 421,69 \$	1 057 068,44 \$
47 (4)	indemnité mensuelle maximale pour les soins auxiliaires (tous les assurés)	3 121,27 \$	3 171,21 \$



MONTANTS PÉCUNIAIRES			
Article de l'Annexe sur les indemnités d'accident légales	Description	Montant 1997	Montant 1998
47 (5)	indemnité mensuelle maximale pour les soins auxiliaires (blessures invalidantes)	6 242,53 \$	6 342,41 \$
47 (6)	indemnité mensuelle maximale pour les soins auxiliaires (blessures multiples, invalidantes)	10 404,22 \$	10 570,69 \$
47 (7)	indemnité mensuelle maximale pour les soins auxiliaires (lésions cérébrales graves avec comportement violent)	10 404,22 \$	10 570,69 \$
50 (10)	taux horaire pour les soins auxiliaires d'hygiène personnelle (lors de l'utilisation de la formule 1)	9,10 \$	9,25 \$
	taux horaire pour les soins auxiliaires spécialisés (lors de l'utilisation de la formule 1)	14,57 \$	14,80 \$
51 (1) b)	prestation de décès payable au conjoint lorsque l'assuré n'aurait pas été admissible aux indemnités de remplacement de revenu	52 021,08 \$	52 853,42 \$
51 (4) a)	prestation de décès payable aux personnes à charge	10 404,22 \$	10 570,69 \$
51 (4) b)	prestation de décès payable à l'ancien conjoint	10 404,22 \$	10 570,69 \$
51 (5)	prestation de décès payable lorsque l'assuré est une personne à charge	10 404,22 \$	10 570,69 \$
51 (8)	prestation de décès minimale payable au conjoint	52 021,08 \$	52 853,42 \$
	prestation de décès maximale payable au conjoint	208 084,34 \$	211 413,69 \$
52 (2)	indemnité funéraire	6 242,53 \$	6 342,41 \$
54 (4)	frais hebdomadaires engagés pour la première personne à charge	78,03 \$	79,28 \$
	frais hebdomadaires engagés pour chaque personne à charge supplémentaire	26,01 \$	26,43 \$
54 (5)	frais hebdomadaires maximaux engagés pour les personnes à charge	156,07 \$	158,57 \$

**Pourcentage d'indexation applicable aux indemnités d'accident  
légales en 1998 en vertu de l'Annexe sur les indemnités d'accident légales - Accident  
survenus le 1<sup>er</sup> novembre 1996 ou après ce jour**

Le pourcentage d'indexation applicable aux indemnités d'accident légales sera de 1,6 % en 1998. À compter du 1<sup>er</sup> janvier 1998, ce pourcentage d'indexation devra s'appliquer, en vertu de la *Directive concernant l'indemnité optionnelle d'indexation* du 28 octobre 1996, aux montants d'indemnités, notamment les montants maximums, auxquels ont droit les personnes assurées qui ont souscrit l'indemnité optionnelle d'indexation et qui ont eu un accident après le 31 octobre 1996.

## Provincial Land Tax Act

**TAKE NOTICE** that I have caused a list of the lands in respect of which notices have been mailed under subsection 1 of Section 33 of The Provincial Land Tax Act, to be prepared and to be published herein and I hereby **GIVE NOTICE** that unless the total amount of tax, penalties, interest and costs shown in any of the notices so mailed are paid on or before the 30th day of November, 1998, the land and every interest therein in respect of any such notice will be liable to be forfeited to and to be vested in the Crown on the 1st day of December, 1998 by certificate of The Deputy Minister under his hand and seal of office.

**(THIS IS NOT A TAX SALE.** The lands listed below cannot be purchased by paying the taxes.)

Dated at Oshawa, Ontario the 19th day of November 1997

P. GORAL  
Director  
Motor Fuels and Tobacco Tax Branch,  
Ministry of Finance,  
Oshawa, Ontario

### Description of Property

#### DISTRICT OF ALGOMA

##### Township of Albanel

Account No. 50341798  
Parcel 20-1 Section 1M-443 Lot 20, Plan 1M-443 ..... \$235.54

##### Township of Aweres

Account No. 57679298  
Instrument T-235488, Lot 23, Registrar's Compiled Plan H-626  
..... \$134.91

Account No. 58141666  
Instrument T-348065, Lot 9, Registrar's Compiled Plan H-659  
..... \$375.01

Account No. 57831031  
Remainder, Parcel 950 Algoma West Section part South East Subdivision Section 26..... \$118.58

Account No. 53985505  
Parcel 4551 Algoma Centre Section Part Northwest Quarter, Section 15 Parcel 7720 Algoma Centre Section Part Northwest Quarter Section 15, Parts 1 and 2 on 1R-6022 ..... \$160.22

##### Township of Cobden

Account No. 50060497  
Parcel 19-1 Section 1M-434, Lot 19 Plan 1M-434 ..... \$130.96

Account No. 54017855  
Parcel 4697 Algoma Centre Section Part 6, Reference Plan AR-5 and Part South half, of South half, Lot 1 Concession 3 ..... \$125.45

##### Township of Deroche

Account No. 54033052  
Summer Resort Location, Part South Part Lot 2 Concession 1 Instrument T-302947..... \$187.26

##### Township of Esquega

Account No. 52649781  
Parcel 284 Algoma Central Railway Lands Part 1, Plan AR-215  
..... \$76.96

### Description of Property

#### DISTRICT OF ALGOMA (continued)

##### Township of Esquega (continued)

Account No. 55268029  
Parcel 118 Algoma Central Railway Lands, Lot 10, Plan M-116  
..... \$259.36

Account No. 55268100  
Parcel 112 Algoma Central Railway Lands Lot 11, Plan M-116  
..... \$173.44

##### Township of Fenwick

Account No. 52618304  
Registrar's Compiled Plan H-807, Lot 116, Parts 1 and 2 on 1R-7687  
..... \$218.17

Account No. 58553034  
Instrument T-350054 Lot 31 Registrar's Compiled Plan H-810, Part 1 Plan 1R-3083 ..... \$352.45

Account No. 54073755  
Registrar's Compiled Plan H-810 Lot 65 ..... \$388.15

Account No. 50043991  
Part Instrument T-218861 Lot 55, Plan H-812 Part Section 23  
..... \$69.02

Account No. 54069391  
Registrar's Compiled Plan H-812 Lot 63 ..... \$174.97

Account No. 54861800  
The North Half of North half Section 8 Instrument T-174882  
..... \$258.24

##### Township of Fisher

Account No. 58579815  
Parcel 6222 Algoma West Section Block D Plan M-306 ..... \$104.30

Account No. 58577952  
Parcel 8047 Algoma West Section, Lot 14, Plan M-347 ..... \$93.49

Account No. 54830076  
Part of Broken Northwest 1/4 Section 30, Instrument T-55609  
..... \$87.47

##### Township of Frost

Account No. 50809293  
Parcel 4745, Algoma West Section, Surface Rights Lot 8, Plan M-190

Parcel 12045 Algoma West Section Part Location CL 7079 Part Block K Plan M-190, Part 2 Plan 1R-8043. .... \$163.73

##### Township of Haviland

Account No. 55969876  
Parcel 10184 Algoma West Section Lot 11 Plan M-408. .... \$76.96

##### Township of Jarvis

Account No. 56747524  
Parcel 1090 Algoma Central Section, North Part Broken Lot 12 Concession 6..... \$92.89

##### Township of Kapuskasing

Account No. 50609871  
Parcel 3029 Algoma Centre Section, Lot 9, Plan M-115 Townplot of Elsas. .... \$101.34

## Description of Property

**DISTRICT OF ALGOMA (continued)****Township of Kars**

Account No. 58707481  
Parcel 8615 Algoma West Section, Surface Rights Lot 25, Plan M-356  
.....\$485.07

Account No. 58709000  
Parcel 8631 Algoma West Section, Surface Rights, Lot 41, Plan M-356 .....\$427.15

Account No. 54128916  
Part Broken Southwest 1/4 Section 12, Instrument T344424 ...\$257.48

**Township of Ley**

Account No. 58726851  
Parcel 8293 Algoma West Section, Surface Rights Block B, Plan M-351 .....\$190.13

**Township of Nicholas**

Account No. 54862199  
Parcel 406 Algoma East Section, Mining Location 87P

Account No. 54862083  
Parcel 406 Algoma East Section, Mining Location 88P .....\$162.32

Account No. 54862130  
Remainder Parcel 771 Algoma East Section, Surface Rights North Part Mining Location 89P and 90P .....\$96.11

**Township of Pennefather**

Account No. 54178590  
Part Broken Northeast Quarter Section 8 Instrument T350024  
.....\$278.86

**Township of Vankoughnet**

Account No. 54242549  
Parcel 2180 Algoma West Section, Part Northeast Quarter Section 11  
.....\$103.85

Account No. 54242701  
Parcel 2955 Algoma West Section, Summer Resort Location, Part North-east Quarter, Section 11 .....\$108.96

Account No. 57823011  
Instrument T-120447, NE 1/4 of the NW 1/4 of the SW 1/4 Section 14  
.....\$70.61

Account No. 56070567  
Instrument T-310180, Part E 1/2 of the NE 1/4 Section 30.....\$254.68

Account No. 57179821  
Instrument T-349949, Part NW 1/4 Section 33, Part 2, Plan 1R-1957  
.....\$484.00

**Township of West**

Account No. 58784877  
Parcel 1212, Location JC 557 Part Location M-6, Part 1, Plan 1R-1294 .....\$233.04

Account No. 54264682  
Parcel 4773 Algoma Centre Section, Part 2, Reference Plan A.R.-57 Part Lot 8 Concession 5 .....\$171.84

## Description of Property

**DISTRICT OF COCHRANE**

Account No. 52626307  
Parcel 8498, North East Cochrane, Surface Rights Part Location M.M.35 Part 1, Plan 6R-4169 ..... \$168.68

Account No. 58942961  
Parcel 8027, North East Cochrane, Surface Rights Lot 29, Plan M-376 Factory Island, Moose River ..... \$1,199.96

Account No. 50207170  
Parcel 8055 North East Cochrane, Surface Rights Lot 59, Plan M-376 Factory Island, Moose River ..... \$733.39

Account No. 50035824  
Parcel 7-1 Section 6M-437, Lot 7, Plan 6M-437 Factory Island, Moose River ..... \$1,219.70

**Township of Carnegie**

Account No. 50016242  
Parcel 5836 North East Cochrane, South Half Lot 9, Concession 1  
..... \$93.23

**Township of Casgrain**

Account No. 55952752  
Parcel 7272, Centre Cochrane Part Lot 24, Concession 2..... \$642.66

**Township of Clute**

Account No. 50019331  
Parcel 5980 North East Cochrane Surface Rights, Lot 12, Concession 2 ..... \$230.61

**Township of Kendall**

Account No. 58026026  
Parcel 12114 Centre Cochrane Part Lot 28, Concession 4, Part 1, Plan 6R-5336 ..... \$146.28

**Township of Moose**

Account No. 52697387  
Parcel 8064 North East Cochrane Surface Rights, Lot 69, Plan M-376  
..... \$1,099.54

**Township of Munro**

Account No. 53625410  
Parcel 14683 South East Cochrane North West Quarter, South half, Lot 2, Concession 6 ..... \$62.35

**Township of Newmarket**

Account No. 50132234  
Remainder Parcel 4852 North East Cochrane Firstly: Part South half, Lot 3, Concession 4, Secondly: Part South half, Lot 3 Concession 4, Thirdly: Part South half, Lot 3 Concession 4..... \$389.85

**Township of O'Brien**

Account No. 50701361 Remainder Parcel 4379 Centre Cochrane, Part Lot 5, Concession 10 ..... \$336.78

**Township of Stoddart**

Account No. 50041824  
Parcel 12252 Centre Cochrane Surface Rights, Summer Resort Lot 8, Plan M-400 ..... \$145.95



## Description of Property

**DISTRICT OF COCHRANE (continued)****Township of Way**

Account No. 58027782  
Parcel 5854 Centre Cochrane Surface Rights East Half of the West  
Half Lot 6, Concession 3 ..... \$337.26

Account No. 52698090  
Parcel 970 Centre Cochrane Surface Rights Lot 3, Concession 5  
..... \$97.47

Account No. 58909009  
Parcel 10424 Centre Cochrane, Surface Rights, Part Lot 4, Concession  
5 Part 3, Plan 6R-3357 ..... \$600.94

**DISTRICT OF KENORA**

Account No. 51304233  
Parcel 12375 Surface Rights Lots 25, and 26, Plan M.36 ..... \$272.25

Account No. 51316312  
Parcel 24529 Surface Rights, Firstly: Lots 24 and 25 West Side  
Seventh Street, Block Six Plan M.57, Secondly: Lot 23, West Side  
Seventh Street, Block 6, Plan M.57 ..... \$139.61

Account No. 51320859  
Parcel 9712 Surface Rights Lot F, Plan M.124 ..... \$361.52

Account No. 51330650  
Parcel 7189 Lots No. 46 and 47 Plan M.174 ..... \$76.92

Account No. 51375301  
Parcel 37025 Surface Rights Location C.L. 4820/4821 and 4822

Parcel 26436 Plan M.222 RP 23R6805 Parts 1 to 8 and RP 23R6806  
Parts 1 to 4 ..... \$42,073.77

Account No. 50024873  
Remainder Parcel 2623 Rainy River Mining Location G368A now in  
the District of Kenora ..... \$98.08

Account No. 51180992  
Remainder Parcel 13691 Remainder Mining Claim K.5484 save and  
except Surface Rights E.B.262 ..... \$78.84

Account No. 57638605  
Remainder of Parcel 5977 Patricia Portion Rights Mining Claims  
K.R.L. 19097, 19112, 29054, 30055, 30056, 30057, 30058, 31826,  
and 31827, Werner and/or Rex Lake Area and Part of Mining Claims  
K.R.L. 19096, 19107, 19108, 19109, 19110, 19111, 29055, 29059,  
29061, 29062, 20965, 29066, 29068, 29069, 29070, 29071, 29072,  
29073, 29075, 29076, 31823, 31824, 31825, 31828, 31829, 31830,  
31831, 31832, and Part Mining Claim K.R.L. 33200 ..... \$400.44

Account No. 51047079  
Parcel 15411, Surface Rights, Summer Resort Location E.B.  
651 ..... \$420.26

Account No. 51264746  
Parcel 13367 Surface Rights, Summer Resort Location R.K.730  
..... \$102.53

**Township of Baird**

Account No. 53960031  
Parcel 5946 Patricia Portion Mining Claim K.R.L. 12730 (Starratt-  
Olsen Site 8) ..... \$151.62

Account No. 53960456  
Parcel 5946 Patricia Portion Mining Claim K.R.L. 12730 (Starratt-  
Olsen Site 10) ..... \$140.97

## Description of Property

**DISTRICT OF KENORA (continued)****Township of Baird**

Account No. 58629448  
Parcel 6149 Patricia Portion, Lot 137 and 138, Plan M-667 ..... \$84.02

**Township of Britton**

Account No. 50836266  
Parcel 6197, South half, Lot 1, Concession 6 ..... \$203.85

**Township of Eton**

Account No. 50842908  
Parcel 9160 South half, Lot 2, Concession 4 ..... \$385.53

Account No. 58650994  
Parcel 30975, part, North Part, Lot 7, Concession 4, Part 1, Plan  
23R-4133 ..... \$255.51

**Township of Kirkup**

Account NO. 58049972  
Remainder Parcel 27846, Lot 2, Plan M-483 ..... \$80.36

**Township of Malachi**

Account No. 50856445  
Parcel 9340, Part Lot 5, Concession 6 ..... \$142.05

**Township of Mutrie**

Account No. 51382439  
Parcel 12796, Lot 5, Plan M.256, Part 1, Plan 23R-6744 ..... \$571.24

**Township of Phillips**

Account No. 51098048  
Remainder Parcel 23291, Surface Rights, Reminder Summer Resort  
Location E.B.1654 ..... \$443.55

**Township of Pellatt**

Account No. 50883337  
Remainder Parcel 27938, Parts of Lot 2, Concession 4, Remainder  
Part 1, Plan 23R-2273 ..... \$152.28

Account No. 50886760  
Parcel 20735, Part Lot 11, Concession 5 ..... \$124.31

Account No. 50887731  
Remainder Parcel 26294, Part South Part Broken Lot 15, Concession  
5, Part 1, Plan 23R-7051 ..... \$309.72

**Township of Redditt**

Account No. 56073655  
Remainder Parcel 24270, Broken Lots 5 & 6, Concession 6, Parts 5 &  
6, Plan K.R. 316 ..... \$764.27

**Township of Rowell**

Account No. 50904539  
Parcel 25112, South-West Quarter, North Half Lot 9, Concession 4  
..... \$86.82

## Description of Property

**DISTRICT OF KENORA (continued)****Township of Southworth**

Account No. 58637041  
Parcel 31406, Lots 28 & 29, West side 7th Street, Block 6 part Mining  
Location H.W.7, Plan M-57 .....\$76.92

Account No. 50912396  
Parcel 24652 District of Kenora and Being Firstly: Part of Location  
H.W.317 Designated as Part 3, Plan K.R. 682. Secondly, Part of the  
South Part of Broken Lot 7, Concession 3, Designated as Part 4, Plan  
K.R.682. ....\$21.77

**Township of Van Horne**

Account No. 58644331  
Parcel 32683, Lot 52, Plan M-669 and Remainder Parcel 39796, Part  
Location CL-6912, Part Lot 5, Concession 2 now Part Block D, Plan  
M-669, Part 2, Plan 23R-8597 .....\$190.49

Account No. 57646888  
Parcel 26899, East Half of the North Half, Lot 10, Concession 6  
.....\$97.47

Account No. 55938334  
Parcel 7343, Kenora West Half, Lot 10, Concession 6, Parcel 18308  
Kenora part South Half, Lot 11, Concession 6.....\$440.37

Account No. 58324612  
Parcel 22338 Kenora being the Surface Rights Only of Lot 4 on Plan  
M-403 being a subdivision of part of Lot 6, Concession 6, ....\$229.50

**Township of Vermilion**

Account No. 53856543  
Parcel 15938 Part Lot 3 and 4 Con 2 .....\$759.28

Account No. 53915906  
Parcel 12911 Lot 177, Plan M.232, Parcel 13418. Lot 178, Plan  
M.232 .....\$750.69

Account No. 53919987  
Parcel 29638, Lot 255, Plan M.232.....\$345.84

**Township of Wabigoon**

Account No. 55939144  
Parcel 17788 South Half, Lot 9, Concession 2 .....\$421.51

Account No. 50935744  
Parcel 15371 South Part Broken Lot Number 10,  
Concession 2 .....\$117.75

Account No. 55941645  
Parcel 27903, Part Lot 9, Concession 6, Part 1,  
Plan K.R. 1255 .....\$218.31

**Township of Wainwright**

Account NO. 57863391  
Parcel 39428 Part South Half, Lot 3 Concession 1, Part 2, Plan  
23R-2564.....\$337.05

**Township of Zealand**

Account No. 54846215  
Parcel 37589, Lot 16, Plan 23M.853 .....\$84.64

Account No. 50974898  
Parcel 26150 Part Lot 4, Concession 1 .....\$124.32

## Description of Property

**DISTRICT OF KENORA (continued)****Township of Zealand**

Account No. 50977986  
Parcel 40282, Surface Rights, North Half, Lot 5, Concession 4  
.....\$168.57

**DISTRICT OF MANITOULIN**

Account No. 51465130  
Parcel 392, Island J.D. 1506 Situate in the North Part of Lake Huron  
.....\$139.63

**DISTRICT OF NIPISSING**

Account No. 52117241  
Parcel 16581 Surface Rights, Summer Resort Location Island L-1  
.....\$128.66

**Township of Commanda**

Account No. 52622867  
Part Lot 11, Concession A Instrument 139547.....\$84.04

**Township of Joan**

Account No. 52187761  
Parcel 17050, Surface Rights, Summer Resort Location Island 1089 in  
lake Timagami .....\$99.08

**Township of Kirkpatrick**

Account No. 56218980  
Parcel 6239, West half, Lot 6, Concession 2, and Parcel 14692, South  
West part of the West half, Lot 6, Concession 3.....\$438.01

**Township of Loudon**

Account No. 50667375  
Parcel 25737, Surface Rights Part Lot 5, Concession V1 Part 1, Plan  
36R-5611 .....\$164.40

Account No. 58514853  
Parcel 24212 Part East Half Lot 11, Concession 6, part 1 Plan 36R-  
4285 .....\$161.63

**Township of Phelps**

Account No. 58451967  
Remainder Parcel 16114 North Half Lot 10, Concession 1 .....\$311.92

Account No. 52048320  
Parcel 15439 West Half of the North Half, Lot 16, Concession 1  
.....\$222.11

Account NO. 52048583  
Parcel 18634 North Half Lot 17, Concession 1.....\$241.00

Account No. 54826303  
Parcel 28006 Part South Half Lot 15 Concession 2 Part 1 Plan  
36R-9069 .....\$216.82

**Township of Poitras**

Account No. 52112532  
Remainder Parcel 17820 Surface Rights Remainder Summer Resort  
Location J.C.253.....\$231.85

## Description of Property

**DISTRICT OF NIPISSING****Township of Vogt**

Account No. 52169861  
Parcel 17107 Surface Rights Summer Resort Location Island 387  
Lake Timagami ..... \$81.39

**Township of Wyse**

Account No. 52115043  
Remainder Parcel 15207 Part John Guppy's Location ..... \$76.96

**DISTRICT OF PARRY SOUND****Township of Blair**

Account No. 56705384  
Parcel 10,631 North Section Part Lot 24, Concession 4 Part 34 Plan  
PSR-1323 ..... \$116.99

Account No. 56705465  
Parcel 10,630 North Section Part Lot 24, Concession 4 Part 35 Plan  
PSR-1323 ..... \$76.96

**Township of Burpee**

Account No. 52756715  
Parcel 9818 South Section Part Lot 8, Concession 2 ..... \$78.88

**Township of Burton**

Account No. 53499091  
Parcel 8696 North Section Lot 10 Plan M-262 ..... \$188.64

Account No. 50587878  
Parcel 14329 North Section Lot 2, Plan M-500 ..... \$130.96

**Township of Croft**

Account No. 52620694  
Part Lot 12 Concession 7 Part 2 Plan 42R-13570 Part 1 Plan  
42R-11920 save and excepting Part 1 Plan 42R-13570 Instrument  
155671 ..... \$134.63

Account No. 58225096  
Parcel 18,049 South Section Part Lot 14, Concession 10 Part 3 Plan  
42R-3806 ..... \$87.55

Account No. 54823967  
Parcel 24898 South Section Part Lot 16 Concession 10 Part 1,  
42R-12274, together with a Right-of Way over Parts 3,5,7 & 10 on  
42R-12274 ..... \$91.26

Account No. 54823959  
Parcel 24899 South Section Part Lot 16 Concession 10 Parts 2,3,4 and  
5 on 42R-12274 ..... \$82.45

Account No. 50569900  
Parcel 20888 South Section Part Lot 18, Concession 10 Part 2, Plan  
42R-7033 ..... \$69.16

**Township of East Mills**

Account No. 52611750  
Parcel 16008 North Section Lot 2 Plan 42M-558 ..... \$167.21

Account No. 52611687  
Parcel 16013 North Section Lot 7 Plan 42M-558 ..... \$139.27

## Description of Property

**DISTRICT OF PARRY SOUND (continued)****Township of Ferguson**

Account No. 52839831  
Part Lot 11 Concession 3 Parts 1 and 5 Plan 42R-5175 Instrument  
119492 ..... \$206.22

**Township of Hardy**

Account No. 56648208  
Parcel 10,876 North Section Summer Resort Lot 20, Plan M-127  
..... \$281.88

**Township of Henvey**

Account No. 52902231  
Parcel 12598 North Section Part Lot 2 Concession A Part 1 Plan  
42R-4372 ..... \$310.99

**Township of Lount**

Account No. 54824751  
Parcel 17104 North Section Part Lot 146 Concession "A" Part 3 on  
42R-11965 ..... \$174.86

**Township of Mills**

Account No. 50837661 & 52966272  
Parcel 6588 North Section Southerly seventy-five acres Lots numbers  
26 and 27, Concession 9 ..... \$483.52

**Township of Monteith**

Account No. 58569011  
Parcel 21,294 South Section Part Lot 23, Concession B Part 4 Plan  
42R-7197 ..... \$61.96

Account No. 52988071  
Part Lot 11 Concession 3 Instrument 71868 ..... \$75.40

Account No. 52622662  
Parcel 25370 South Section Part Lot 3 Concession 7 Part 1 on  
42R-12900 ..... \$76.94

Account No. 53005233  
Remainder Parcel 12547 South Section Lot 35 Concession  
12 ..... \$85.91

**Township of Patterson**

Account No. 57915129  
Parcel 17,415 North Section Firstly: Part Lot 8, Plan M-347 Part 3  
Plan 42R-12573 Secondly: Part Original Shore Allowance in front of  
Lot 25, Concession 4 designated as Part 4 Plan 42R-12573 .... \$228.51

**Township of Pringle**

Account No. 58678473  
Parcel 13,235 North Section, Firstly: Part Lot 34, Concession 7 Part 1  
Plan 42R-5258, Secondly: Part Lot 35, Concession 7 Part 2 Plan  
42R-5258 ..... \$515.40



## Description of Property

**DISTRICT OF PARRY SOUND (continued)****Township of Spence**

Account No. 53075592

Parcel 24161 South Section Part Lot 33 Concession 6 Parts 1 and 2  
Plan PSR-365 together with a Right-of Way over Part 13 Plan  
PSR-365 and a Right-of Way over Part Lot 34 Concession 6 Part 14  
Plan PSR-365 .....\$76.22

Account No. 53078923

All Lot 11, Concession 10 Instrument 98548 .....\$76.94

Account No. 53080260

Parcel 7774 South Section, Firstly: East half of the West half, Lot 16  
Concession 11, Secondly: West half of the East half Lot 16 Concession  
11 .....\$74.57

**Township of Wallbridge**

Account No. 53438989

All Lot 29 Plan 165 Instrument 121402 together with a Right-of-Way  
Instrument 63692 .....\$150.42

Account No. 53438300

Part 4 Plan 42R7888 Block "B" Bying Inlet Instrument 96696  
.....\$266.01

Account No. 56916652

Parcel 11,580 North Section Summer Resort Lot 109 Plan M-307  
.....\$149.24

**Township of Wilson**

Account No. 58799700

Parcel 13,561 North Section Lot 2, Plan M-462 .....\$242.26

**DISTRICT OF RAINY RIVER****Township of Atwood**

Account No. 50448509

Parcel 14-8 Section SM 75 Surface Rights North Half of the South-  
west Quarter Section 14 in the Indian Reserve Plan of Subdivision  
SM-75, excepting thereout under expropriation S-511 Part 1 Plan  
P2286-14 .....\$76.92

Account No. 50364178

Parcel 12993 Surface Rights Summer Resort Location EB-455  
.....\$248.33

**Township of Dance**

Account No. 50288048

Parcel 19727 West Half of the South Half Lot 11, Concession 2  
.....\$69.08

**Township of Dewart**

Account No. 50292169

Remainder Parcel 14495 East Half of the South Half Lot 3, Conces-  
sion 1 .....\$297.94

**Township of Nelles**

Account No. 57305908

Parcel 20,129 Southwest Quarter of the Southwest Quarter Section 14  
excepting that portion Heretofore Expropriated for Highway purpose  
under Plan D-5 (D.H.O. Plan P-2165-7) .....\$75.22

## Description of Property

**DISTRICT OF RAINY RIVER (continued)****Township of Senn**

Account No. 57790652

Parcel 21,417 Summer Resort Location GW-102 Part 1 Plan 48R-898  
.....\$246.80

**Township of Sifton**

Account No. 50323587

Parcel 19039 Northeast Quarter of the North Half Lot 4, Concession 5  
.....\$76.94

**Township of Watten**

Account No. 50340678

Parcel 11830 Part Lot 36, Concession 1, South Range, excepting the  
99 foot Right of Way granted to the Canadian Northern Railway  
Company .....\$150.21

**DISTRICT OF SUDBURY**

Account No. 50603199

Parcel 18896 Sudbury West Section Lot one hundred and sixty five,  
plan M-79, Townplot of Foleyet .....\$68.98

Account No. 50596931

Parcel 19373 Sudbury West Section, Lot 71, Plan M-79, Townplot of  
Foleyet .....\$174.61

Account No. 58456675 &amp; 51537084

Parcel 25752 Sudbury West Section, Lots 199 and 206, Plan M-79,  
Townplot of Foleyet .....\$254.29

Account No. 50595463

Parcel 11254 Sudbury West Section Lot number fifty-three, Plan  
M-79, Townsite of Foleyet .....\$135.38

Account No. 50616240

Parcel 19496 Sudbury West Section, Lots 165 and 166, Plan M-200,  
Townplot of Gogama

Parcel 21026 Sudbury West Section Lot 167, Plan M-200, Townsite of  
Gogama .....\$281.44

Account No. 50280322

Parcel 11582 Sudbury West Section, Lot 25, Plan M-96, Townplot of  
Nemegos .....\$140.25

**Township of Awrey**

Account No. 57698667

Parcel 36601 Sudbury East Section, Surface Rights Lot 46, Plan  
M-411 .....\$206.16

**Township of Bigwood**

Account No. 54496940

Remainder Parcel 3795 Sudbury East Section Part Broken Lot 3 Con-  
cession 2 Part 1 Plan SR-1552 and Part 2 Plan 53R-8794 Parcel 30138  
Sudbury East Section Part Lot 3 Concession 2 Part 1 Plan SR-131  
.....\$820.21

Account No. 54511884

Remainder Parcel 11030 Sudbury East Section Part North part Broken  
Lot 4 Concession 6 Part 1 Plan SR-2080 .....\$242.43

## Description of Property

**DISTRICT OF SUDBURY (continued)****Township of Cartier**

Account No. 55241198  
Instrument 108349 Plan 533 Lot 19 Block 10..... \$125.32

**Township of Cochrane**

Account No. 50253279  
Parcel 5430 Sudbury West Section North Half, Lot 6, Concession 6  
..... \$106.96

**Township of Curtin**

Account No. 50042863  
Instrument 589133 Part Lot 13, Plan 45S Sudbury Condominium Plan  
5, Unit 11 ..... \$109.14

Account No. 50599213  
Instrument 106695 Part Lot 30, Plan 45S Part 1, Plan 53R-9550  
..... \$665.70

Account No. 54981643  
Instrument 88114 Plan 45S Whitefish Indian Reserve Number Four  
(4) Lot D ..... \$92.25

**Township of D'Arcy**

Account No. 58537624  
Parcel 26527 Sudbury West Section Part Lot 8, Concession 2 Part 2  
Plan 53R-7948 ..... \$76.98

**Township of Dill**

Account No. 54619715  
Parcel 31942 Sudbury East Section Part North half Lot 2, Concession  
1, Part 2 Plan SR-954, Parcel 31943 Sudbury East Section Part North  
half Lot 2, Concession 1 Part 3 Plan 3SR-954 Parcel 31944 Sudbury  
East Section Parts North half Lot 2, Concession 1, Parts 1 and 5 Plan  
SR-954 ..... \$342.85

**Township of Dryden**

Account No. 59216830  
Parcel 27254 Sudbury East Section Part Lot 6, Concession 1 Location  
T.R. 53 ..... \$131.30

**Township of Foleyet**

Account No. 52607213  
Parcel 29807 Sudbury West Section Part Lot 6 Concession 5 excepting  
Part 2 Plan 53R-8293 ..... \$76.96

**Township of Loughrin**

Account No. 54653107  
Parcel 21632 Sudbury East Section West half of the West half Lot 1  
Concession 1 ..... \$216.29

**Township of Munster**

Account No. 54830963  
Parcel 13349A Sudbury West Section Summer Resort Location A.E.  
499 ..... \$217.40

## Description of Property

**DISTRICT OF SUDBURY (continued)****Township of Penhorwood**

Account No. 55700974  
Surface Rights of the Following Parcels: Parcel 19238 Sudbury West  
Section, Mining Location C.L. M. 105 being Mining Claims  
S.109676, S.109677 S.109678, S.109679, S.109690, S.109691  
S.111576, S.111577, S.111578, S.111579 S.111580, S.111581.

Parcel 19239 Sudbury West Section Mining Location C.L. M. 102  
being Mining Claims S.108313, S.109674, S.109675, S.111582,  
S.111583, S.111584, S.111585, S.111586, S.111587, S.111588,  
S.111589, S.111713.

Parcel 19244 Sudbury West Section Mining Location C.L. M. 100  
being Mining Claims S.107969, S.107970, S.107971, S.107972,  
S.107976, S.107977, S.107978, S.107979, S.107983, S.107984,  
S.108001, S.108002, S.109496, S.109497, S.109498, S.111712.

Parcel 19245 Sudbury West Section Mining Location C.L. M. 101  
being Mining Claims S.107973, S.107980, S.107985, S.107986,  
S.107987, S.107988, S.108003, S.108004, S.108005, S.108010,  
S.108011, S.108012, S.109499, S.109500, S.109501, S.109502.  
..... \$610.97

**Township of Servos**

Account No. 54755724  
Parcel 21873 Sudbury East Section Part Lot 5 Concession 4,  
Remainder Parcel 15681 Summer Resort Location Part Lot 5,  
Concession 4 ..... \$86.40

**DISTRICT OF THUNDER BAY**

Account No. 55081221  
Parcel 21153 Firstly: Portion of Mining Claim TB-23994 Part 1 on  
Plan 55R-5005 Secondly: Surface Rights Part Location CL-3060 Part  
Mining Claim TB-23994 Part 1 Plan 55R-5085 ..... \$125.32

Account No. 50530612  
Parcel 9287 Lots Number 10 and 11, Block 5, Plan M-12, Village of  
Rosspart ..... \$120.24

Account No. 50533701  
Parcel 10043 Lot Number 43, Plan M-93, Townplot of MacDiarmid.

Parcel 10905 Lot Number 44, Plan M-93, Townplot of  
MacDiarmid ..... \$76.92

Account No. 50540251  
Parcel 13921 Surface Rights Lot 58 Plan M.105 Townsite at  
Jellicoe ..... \$99.24

Account No. 54384971  
Parcel 22442 Lot 17 Plan M-358 ..... \$76.94

Account No. 54814496  
Parcel 2-1 Section 55M-445 Lot 2 Plan 55M-445 ..... \$263.73

Account No. 54837194  
Parcel 11-1 Section 55M-445 Lot 11 Plan 55M-445 ..... \$225.34

**Township of Ashmore**

Account No. 58349127  
Remainder Parcel 29-1 Section M-304 Surface Rights Lot 29, Plan  
M-304 ..... \$78.68

## Description of Property

**DISTRICT OF THUNDER BAY (continued)****Township of Dawson Road**

Account No. 52263212  
Parcel 16730 Surface Rights Lot 37, Concession "A" .....\$351.56

Account 57581328  
Parcel 2767 Fort William Freehold part Lot 19, Concession 1 .....\$76.94

**Township of Devon**

Account No. 58002003  
Parcel 24073 Part Lot 39, Concession 3 Part 2 Plan 55R-8088.  
.....\$76.92

**Township of Forbes**

Account No. 52282501  
Parcel 25610 Firstly: Part North Part Lot 14, Concession 3, Part 2, Plan 55R-9913. Secondly: Part North Part Lot 14, Concession 3, Parts 3 and 9, Plan 55R-9913 .....\$171.92

**Township of Fowler**

Account No. 52593824  
Parcel 8836 Summer Resort Location Lot 7 Plan M-119 .....\$179.42

Account No. 52613639  
Parcel 12529 Lot 17 Plan M-204 .....\$150.93

Account No. 58186074  
Parcel 17760 Surface Rights Summer Resort Lot 6, Plan M-295 .....\$159.45

**Township of Gorham**

Account No. 52301343  
Parcel 22788 Part Lot 1, Concession 1 .....\$333.43

Account No. 52313341  
Parcel 13884 Surface Rights South Half Lot 17, Concession 3 .....\$427.56

Account No. 58163864  
Parcel 20257 Part East Half of the North Half Lot 5, Concession 4 Part 1 Plan 55R-4875 .....\$122.14

Account No. 52333105  
Parcel 8700 Southeasterly Part Broken Lot Number 18, Concession 7 .....\$313.64

**Township of Jacques**

Account No. 56539182  
Parcel 14670 Lot 14, Plan M-206 .....\$162.91

Account No. 52340152  
Parcel 8435 Part South Part Broken Lot two, Concession two  
.....\$64.77

**Township of Kilkenny**

Account No. 50496724  
Parcel 10444 Location DC-9 .....\$76.96

**Township of Lybster**

Account. 58083437  
Parcel 5-10 Section Con-5 Surface Rights Part North half Lot 5, Concession 5 Parts 1, 2, 4 & 5, Plan FWR-440 .....\$110.31

## Description of Property

**DISTRICT OF THUNDER BAY (continued)****Township of Lybster (continued)**

Account No. 52352312  
Parcel 4181 Fort William Freehold Surface Rights Portion North Half Lot Number 5, Concession 5

Parcel 4468 Fort William Freehold Portion North Half Lot 5, Concession 5

Parcel 18897 Part Location R.K.-951 Part Lot 5, Concession 5 Part 2, Plan 55R-3812

Parcel 17836 Portion Location R.K.951 Part Lot 5, Concession 5 Parts 2 and 6, Plan 55R-2486 .....\$169.35

**Township of Lyon**

Account 52358256  
Parcel 2932 East Half Lot Fifteen, Concession Four .....\$87.09

Account No. 52359481  
Parcel 14167 Part West Half Lot One, Concession 6 .....\$71.74

Account No.57102659  
Parcel 17993 West Half of the East Half Lot 1, Concession 10  
.....\$76.94

Account No. 52091853  
Parcel 22115 Part Lot 7, Concession 11 Part 1, Plan 55R-6039 .....\$565.01

**Township of Marks**

Account No. 58313629  
Reminder Parcel 15676 Part North Half Lot 3, Concession 3 Part 1 Plan 55R-628 .....\$127.09

Account No. 52653550  
Parcel 24987 Part South half Lot 5, Concession 3 Part 1 on 55R-9120  
.....\$183.54

**Township of Scoble**

Account No. 52502497  
Parcel 16937 Mining Location R-25 .....\$64.04

**Township of Upsala**

Account No. 52605822  
Parcel 1-1 Section 55M-488 Lot 1 Plan M-488 .....\$89.05

Account No. 52605962  
Parcel 3-1 Section 55M-488 Lot 3 Plan 55M-488 .....\$89.13

Account No. 52606179  
Parcel 7-1 Section 55M-488 Lot 7 Plan M-488 .....\$89.05

Account No. 56292365  
Parcel 2812 Fort William Freehold part South Half Lot 3, Concession 1 .....\$264.56

Account No. 52411351  
Parcel 6343 Fort William Freehold Part Lot Number 4, Concession 1  
.....\$740.10

Account No. 52411696  
Parcel 4911 Fort William Freehold South Half Lot 5, Concession 1  
.....\$137.14



## Description of Property

## DISTRICT OF THUNDER BAY (continued)

## Township of Upsala (continued)

Account No. 52414288  
Parcel 3152 Fort William Freehold South part Broken Lot nine, Concession two ..... \$509.26

## Township of Ware

Account No. 54817495  
Parcel 22957 Part North half Lot 7 Concession 1 Part 1 on 55R-6749 ..... \$145.52

Account No. 58032123  
Remainder Parcel 15828 Part South Half Lot 2, Concession 4 ..... \$613.76

Account No. 54201001  
Parcel 20506 South half Lot 5 Concession 5 Part 3 Plan 55R-4201 ..... \$411.49

(6105) 49

## Loi sur l'impôt foncier provincial

**PAR LE PRÉSENT AVIS**, j'ai fait dresser une liste des biens-fonds à l'égard desquels des avis visés au paragraphe (1) de l'article 33 de la Loi sur l'impôt foncier provincial ont été envoyés par la poste, et je la publie ci-après. J'INDIQUE par le présent avis qu'à moins que le montant de l'impôt, des intérêts, des pénalités et des frais figurant dans ces avis n'ait été acquitté au plus tard le 30 novembre 1998, le bien-fonds et les intérêts qui s'y rattachent seront, par l'effet d'un certificat signé par le sous-ministre et marqué de son sceau officiel, susceptibles de confiscation et de dévolution à la Couronne le 1<sup>er</sup> décembre 1998.

**(CECI N'EST PAS UNE VENTE DE TERRAINS POUR TAXES.**  
Les biens-fonds énumérés ci-après ne peuvent être achetés en échange d'un acquittement des impôts.)

Signé à Oshawa (Ontario), ce 19th jour de novembre 1997

P. GORAL  
Directeur,  
Direction de la taxe sur les carburants et le tabac,  
Ministère des Finances,  
Oshawa (Ontario)

## Description des bien-fonds

## DISTRICT D'ALGOMA

## Canton d'Albanel

Compte n° 50341798  
Parcelle 20-1, section 1M-443, lot 20, plan 1M-443 ..... 235,54 \$

## Canton d'Aweres

Compte n° 57679298  
Instrument n° T-235488, lot 23, plan dérivé du registraireur H-626 ..... 134,91 \$

Compte n° 58141666  
Instrument n° T-348065, lot 9, plan dérivé du registraireur H-659 ..... 375,01 \$

## Description des bien-fonds

## DISTRICT D'ALGOMA (suite)

## Canton d'Aweres (suite)

Compte n° 57831031  
Domaine résiduel, parcelle 950, section Algoma ouest, partie sud-est du lotissement de la section 26 ..... 118,58 \$

Compte n° 53985505  
Parcelle 4551, section Algoma centre, partie du quart nord-ouest, section 15 Parcelle 7720, section Algoma centre, partie du quart nord-ouest, section 15, Parts 1 et 2 du plan 1R-6022 ..... 160,22 \$

## Canton de Cobden

Compte n° 50060497  
Parcelle 19-1, section 1M-434, lot 19 plan 1M-434 ..... 130,96 \$

Compte n° 54017855  
Parcelle 4697, section Algoma Centre, partie 6, plan de renvoi AR-5 et partie de la moitié sud, moitié sud du lot 1, concession 3 ..... 125,45 \$

## Canton de Deroche

Compte n° 54033052  
Emplacement de station estivale, partie sud, partie du lot 2, concession 1, instrument n° T-302947 ..... 187,26 \$

## Canton d'Esquega

Compte n° 52649781  
Parcelle 284, terrains ferroviaires d'Algoma centre, partie 1, plan AR-215 ..... 76,96 \$

Compte n° 55268029  
Parcelle 118, terrains ferroviaires d'Algoma centre, lot 10, plan M-116 ..... 259,36 \$

Compte n° 55268100  
Parcelle 112, terrains ferroviaires d'Algoma centre, lot 11, plan M-116 ..... 173,44 \$

## Canton de Fenwick

Compte n° 52618304  
Plan dérivé du registraireur H-807, lot 116, parties 1 et 2 du plan 1R-7687 ..... 218,17 \$

Compte n° 58553034  
Instrument n° T-350054, lot 31, plan dérivé du registraireur H-810, partie 1, plan 1R-3083 ..... 352,45 \$

Compte n° 54073755  
Plan dérivé du registraireur H-810, lot 65 ..... 388,15 \$

Compte n° 50043991  
Partie de l'instrument n° T-218861, lot 55, plan H-812, partie de la section 23 ..... 69,02 \$

Compte n° 54069391  
plan dérivé du registraireur H-812, lot 63 ..... 174,97 \$

Compte n° 54861800  
Moitié nord de la moitié nord de la section 8, instrument n° T-174882 ..... 258,24 \$

## Canton de Fisher

Compte n° 58579815  
Parcelle 6222, section d'Algoma ouest, bloc D, plan M-306 ..... 104,30 \$

## Description des bien-fonds

**DISTRICT D'ALGOMA (suite)****Canton de Fisher (suite)**

Compte n° 58577952  
Parcelle 8047, section d'Algoma ouest, lot 14, plan M-347 .....93,49 \$

Compte n° 54830076  
Partie du quart nord-ouest morcelé de la section 30, instrument  
n° T-55609 .....87,47 \$

**Canton de Frost**

Compte n° 50809293  
Parcelle 4745, section Algoma ouest, droits de superficie du lot 8, plan  
M-190

Parcelle 12045, section Algoma ouest, partie de l'emplacement  
CL 7079, partie du bloc K, plan M-190, partie 2 du plan  
1R-8043 .....163,73 \$

**Canton de Haviland**

Compte n° 55969876  
Parcelle 10184, section Algoma ouest, lot 11, plan M-408 .....76,96 \$

**Canton de Jarvis**

Compte n° 56747524  
Parcelle 1090, section Algoma centre, partie nord du lot morcelé 12,  
concession 6 .....92,89 \$

**Canton de Kapuskasing**

Compte n° 50609871  
Parcelle 3029, section Algoma Centre, lot 9, plan M-115, lotissement  
d'Elsas .....101,34 \$

**Canton de Kars**

Compte n° 58707481  
Parcelle 8615, section Algoma ouest, droits de superficie, lot 25, plan  
M-356 .....485,07 \$

Compte n° 58709000  
Parcelle 8631, section Algoma ouest, droits de superficie, lot 41, plan  
M-356 .....427,15 \$

Compte n° 54128916  
Partie morcelée du quart sud-ouest, section 12, instrument n°  
T344424 .....257,48 \$

**Canton de Ley**

Compte n° 58726851  
Parcelle 8293, section Algoma ouest, droits de superficie, bloc B, plan  
M-351 .....190,13 \$

**Canton de Nicholas**

Compte n° 54862199  
Parcelle 406, section Algoma Est, emplacement minier 87P

Compte n° 54862083  
Parcelle 406, section Algoma Est, emplacement minier 88P  
.....162,32 \$

Compte n° 54862130  
Domaine résiduel, parcelle 771, section Algoma Est, droits de superfi-  
cie de la partie nord de l'emplacement minier 89P et 90P .....96,11 \$

## Description des bien-fonds

**DISTRICT D'ALGOMA (suite)****Canton de Pennefather**

Compte n° 54178590  
Partie morcelée du quart nord-ouest, section 8, instrument n°  
T350024 .....278,86 \$

**Canton de Vankoughnet**

Compte n° 54242549  
Parcelle 2180, section Algoma ouest, partie du quart nord-est, section  
11 .....103,85 \$

Compte n° 54242701  
Parcelle 2955, section Algoma ouest section, emplacement de station  
estivale, partie du quart nord-est, section 11 .....108,96 \$

Compte n° 57823011  
Instrument n° T-120447, 1/4 nord-est du 1/4 nord-ouest du 1/4 sud-  
ouest, section 14 .....70,61 \$

Compte n° 56070567  
Instrument n° T-310180, partie de la 1/2 est du 1/4 nord-est, section  
30 .....254,68 \$

Compte n° 57179821  
Instrument n° T-349949, partie du 1/4 nord-ouest, section 33, partie 2,  
plan 1R-1957 .....484,00 \$

**Canton de West**

Compte n° 58784877  
Parcelle 1212, emplacement JC 557, partie de l'emplacement M-6,  
partie 1, plan 1R-1294 .....233,04 \$

Compte n° 54264682  
Parcelle 4773, section Algoma Centre, partie 2, plan de renvoi  
A.R.-57, partie du lot 8, concession 5 .....171,84 \$

**DISTRICT DE COCHRANE**

Compte n° 52626307  
Parcelle 8498, Cochrane nord-est, droits de superficie, partie de  
l'emplacement M.M.35, partie 1, plan 6R-4169 .....168,68 \$

Compte n° 58942961  
Parcelle 8027, Cochrane nord-est, droits de superficie, lot 29, plan  
M-376 Factory Island, Moose River .....1 199,96 \$

Compte n° 50207170  
Parcelle 8055, Cochrane nord-est, droits de superficie, lot 59, plan  
M-376, Factory Island, Moose River .....733,39 \$

Compte n° 50035824  
Parcelle 7-1, section 6M-437, lot 7, plan 6M-437, Factory Island,  
Moose River .....1 219,70 \$

**Canton de Carnegie**

Compte n° 50016242  
Parcelle 5836, Cochrane nord-est, moitié sud du lot 9, concession 1  
.....93,23 \$

**Canton de Casgrain**

Compte n° 55952752  
Parcelle 7272, Cochrane centre, partie du lot 24, concession 2  
.....642,66 \$

**Canton de Clute**

Compte n° 50019331  
Parcelle 5980, Cochrane nord-est, droits de superficie, lot 12, conces-  
sion 2 .....230,61 \$

## Description des bien-fonds

**DISTRICT DE COCHRANE (suite)****Canton de Kendall**

Compte n° 58026026  
Parcelle 12114, Cochrane centre, partie du lot 28, concession 4, partie 1, plan 6R-5336 ..... 146,28 \$

**Canton de Moose**

Compte n° 52697387  
Parcelle 8064, Cochrane nord-est, droits de superficie, lot 69, plan M-376 ..... 1 099,54 \$

**Canton de Munro**

Compte n° 53625410  
Parcelle 14683, Cochrane sud-est, quart nord-ouest, moitié sud, lot 2, concession 6 ..... 62,35 \$

**Canton de Newmarket**

Compte n° 50132234  
Domaine résiduel, parcelle 4852, Cochrane nord-est. En premier lieu : partie de la moitié sud, lot 3, concession 4; en second lieu : partie de la moitié sud, lot 3, concession 4; en troisième lieu : partie de la moitié sud, lot 3, concession 4 ..... 389,85 \$

**Canton de O'Brien**

Compte n° 50701361  
Domaine résiduel, parcelle 4379, Cochrane centre, partie du lot 5, concession 10 ..... 336,78 \$

**Canton de Stoddart**

Compte n° 50041824  
Parcelle 12252, Cochrane centre, droits de superficie, station estivale, lot 8, plan M-400 ..... 145,95 \$

**Canton de Way**

Compte n° 58027782  
Parcelle 5854, Cochrane centre, droits de superficie, moitié est de la moitié ouest du lot 6, concession 3 ..... 337,26 \$

Compte n° 52698090  
Parcelle 970, Cochrane centre, droits de superficie du lot 3, concession 5 ..... 97,47 \$

Compte n° 58909009  
Parcelle 10424, Cochrane centre, droits de superficie, partie du lot 4, concession 5, partie 3, plan 6R-3357 ..... 600,94 \$

**DISTRICT DE KENORA**

Compte n° 51304233  
Parcelle 12375, droits de superficie lots 25 et 26, plan M.36 ..... 272,25 \$

Compte n° 51316312  
Parcelle 24529, droits de superficie. En premier lieu : lots 24 et 25, côté ouest de la Septième rue, bloc six, plan M.57; en second lieu : lot 23, côté ouest de la Septième rue, bloc 6, plan M.57 ..... 139,61 \$

Compte n° 51320859  
Parcelle 9712, droits de superficie, lot F, plan M.124 ..... 361,52 \$

## Description des bien-fonds

**DISTRICT DE KENORA (suite)**

Compte n° 51330650  
Parcelle 7189, lots 46 et 47, plan M.174 ..... 76,92 \$

Compte n° 51375301  
Parcelle 37025, droits de superficie, emplacement C.L. 4820/4821 et 4822

Parcelle 26436, plan M.222 PR 23R6805, parties 1 à 8, et PR 23R6806, parties 1 à 4 ..... 42 073,77 \$

Compte n° 50024873  
Domaine résiduel, parcelle 2623, Rainy River emplacement minier G368A, maintenant dans le district de Kenora ..... 98,08 \$

Compte n° 51180992  
Domaine résiduel, parcelle 13691, domaine résiduel, claim minier K.5484, exclusion faite des droits de superficie E.B.262 ..... 78,84 \$

Compte n° 57638605  
Domaine résiduel de la parcelle 5977, partie Patricia des droits de claims miniers K.R.L. 19097, 19112, 29054, 30055, 30056, 30057, 30058, 31826 et 31827, région de Werner et de Rex Lake et partie des claims miniers K.R.L. 19096, 19107, 19108, 19109, 19110, 19111, 29055, 29059, 29061, 29062, 20965, 29066, 29068, 29069, 29070, 29071, 29072, 29073, 29075, 29076, 31823, 31824, 31825, 31828, 31829, 31830, 31831, 31832, et partie du claim minier K.R.L. 33200 ..... 400,44 \$

Compte n° 51047079  
Parcelle 15411, droits de superficie, emplacement de station estivale E.B. 651 ..... 420,26 \$

Compte n° 51264746  
Parcelle 13367, droits de superficie, emplacement de station estivale R.K.730 ..... 102,53 \$

**Canton de Baird**

Compte n° 53960031  
Parcelle 5946, portion Patricia du claim minier K.R.L. 12730 (site Starratt-Olsen 8) ..... 151,62 \$

Compte n° 53960456  
Parcelle 5946, portion Patricia du claim minier K.R.L. 12730 (site Starratt-Olsen 10) ..... 140,97 \$

Compte n° 58629448  
Parcelle 6149, portion Patricia, lots 137 et 138, plan M-667 .... 84,02 \$

**Canton de Britton**

Compte n° 50836266  
Parcelle 6197, moitié sud, lot 1, concession 6 ..... 203,85 \$

**Canton d'Eton**

Compte n° 50842908  
Parcelle 9160, moitié sud, lot 2, concession 4 ..... 385,53 \$

Compte n° 58650994  
Parcelle 30975, portion de la partie nord, lot 7, concession 4, partie 1, plan 23R-4133 ..... 255,51 \$

**Canton de Kirkup**

Compte n° 58049972  
Domaine résiduel, parcelle 27846, lot 2, plan M-483 ..... 80,36 \$



Description des bien-fonds  
**DISTRICT DE KENORA (suite)**

**Canton de Malachi**

Compte n° 50856445  
Parcelle 9340, partie du lot 5, concession 6 ..... 142,05 \$

**Canton de Mutrie**

Compte n° 51382439  
Parcelle 12796, lot 5, plan M.256, partie 1, plan 23R-6744 .... 571,24 \$

**Canton de Phillips**

Compte n° 51098048  
Domaine résiduel, parcelle 23291, droits de superficie, domaine résiduel de l'emplacement de station estivale E.B.1654..... 443,55 \$

**Canton de Pellatt**

Compte n° 50883337  
Domaine résiduel, parcelle 27938, parties du lot 2, concession 4, domaine résiduel, partie 1, plan 23R-2273 ..... 152,28 \$

Compte n° 50886760  
Parcelle 20735, partie du lot 11, concession 5 ..... 124,31 \$

Compte n° 50887731  
Domaine résiduel, parcelle 26294, partie de la partie sud du lot morcelé 15, concession 5, partie 1, plan 23R-7051 ..... 309,72 \$

**Canton de Redditt**

Compte n° 56073655  
Domaine résiduel, parcelle 24270, lots morcelés 5 et 6, concession 6, parties 5 et 6, plan K.R. 316 ..... 764,27 \$

**Canton de Rowell**

Compte n° 50904539  
Parcelle 25112, quart sud-ouest, moitié nord du lot 9, concession 4 ..... 86,82 \$

**Canton de Southworth**

Compte n° 58637041  
Parcelle 31406, lots 28 et 29, côté ouest de la 7<sup>e</sup> rue, bloc 6, partie de l'emplacement minier H.W.7, plan M-57 ..... 76,92 \$

Compte n° 50912396  
Parcelle 24652, district de Kenora; en premier lieu : partie de l'emplacement H.W.317 désigné partie 3, plan K.R. 682; en second lieu, partie de la partie sud du lot morcelé 7, concession 3, désigné partie 4, plan K.R.682. .... 21,77 \$

**Canton de Van Horne**

Compte n° 58644331  
Parcelle 32683, lot 52, plan M-669 et domaine résiduel de la parcelle 39796, partie de l'emplacement CL-6912, partie du lot 5, concession 2, et maintenant partie du bloc D, plan M-669, partie 2, plan 23R-8597 ..... 190,49 \$

Compte n° 57646888  
Parcelle 26899, moitié est de la moitié nord, lot 10, concession 6 ..... 97,47 \$

Compte n° 55938334  
Parcelle 7343 Kenora moitié ouest lot 10, concession 6, parcelle 18308, partie de la moitié sud de Kenora, lot 11, concession 6 ..... 440,37 \$

Description des bien-fonds  
**DISTRICT DE KENORA (suite)**

**Canton de Van Horne (suite)**

Compte n° 58324612  
Parcelle 22338 de Kenora, droits de superficie seulement du lot 4 sur le plan M-403 représenté par un lotissement d'une partie du lot 6, concession 6 ..... 229,50 \$

**Canton de Vermilion**

Compte n° 53856543  
Parcelle 15938, partie du lot 3 et 4, concession 2 ..... 759,28 \$

Compte n° 53915906  
Parcelle 12911, lot 177, plan M.232, parcelle 13418, lot 178, plan M.232 ..... 750,69 \$

Compte n° 53919987  
Parcelle 29638, lot 255, plan M.232 ..... 345,84 \$

**Canton de Wabigoon**

Compte n° 55939144  
Parcelle 17788, moitié sud, lot 9, concession 2 ..... 421,51 \$

Compte n° 50935744  
Parcelle 15371, partie sud du lot morcelé numéro 10, concession 2 ..... 117,75 \$

Compte n° 55941645  
Parcelle 27903, partie du lot 9, concession 6, partie 1, plan K.R. 1255 ..... 218,31 \$

**Canton de Wainwright**

Compte n° 57863391  
Parcelle 39428, partie de la moitié sud, lot 3, concession 1, partie 2, plan 23R-2564 ..... 337,05 \$

**Canton de Zealand**

Compte n° 54846215  
Parcelle 37589, lot 16, plan 23M, 853 ..... 84,64 \$

Compte n° 50974898  
Parcelle 26150, partie du lot 4, concession 1 ..... 124,32 \$

Compte n° 50977986  
Parcelle 40282, droits de superficie, moitié nord, lot 5, concession 4 ..... 168,57 \$

**DISTRICT DE MANITOULIN**

Compte n° 51465130  
Parcelle 392, île J.D. 1506 sise dans la partie nord du Lac Huron ..... 139,63 \$

**DISTRICT DE NIPISSING**

Compte n° 52117241  
Parcelle 16581, droits de superficie, emplacement de station estivale, île L-1 ..... 128,66 \$

**Canton de Commanda**

Compte n° 52622867  
partie du lot 11, concession A, instrument n° 139547 ..... 84,04 \$

## Description des bien-fonds

**DISTRICT DE NIPISSING (suite)****Canton de Joan**

Compte n° 52187761  
Parcelle 17050, droits de superficie, emplacement de station estivale, île 1089 du Lac Timagami ..... 99,08 \$

**Canton de Kirkpatrick**

Compte n° 56218980  
Parcelle 6239, moitié ouest, lot 6, concession 2, et parcelle 14692, partie sud-ouest de la moitié ouest, lot 6, concession 3 ..... 438,01 \$

**Canton de Loudon**

Compte n° 50667375  
Parcelle 25737, droits de superficie, partie du lot 5, concession VI, partie 1, plan 36R-5611 ..... 164,40 \$

Compte n° 58514853  
Parcelle 24212, partie de la moitié est, lot 11, concession 6, partie 1, plan 36R-4285 ..... 161,63 \$

**Canton de Phelps**

Compte n° 58451967  
Domaine résiduel de la parcelle 16114, moitié nord du lot 10, concession 1 ..... 311,92 \$

Compte n° 52048320  
Parcelle 15439, moitié ouest de la moitié nord du lot 16, concession 1 ..... 222,11 \$

Compte n° 52048583  
Parcelle 18634, moitié nord du lot 17, concession 1 ..... 241,00 \$

Compte n° 54826303  
Parcelle 28006, partie de la moitié sud du lot 15, concession 2, partie 1, plan 36R-9069 ..... 216,82 \$

**Canton de Poitras**

Compte n° 52112532  
Domaine résiduel de la parcelle 17820, droits de superficie, domaine résiduel de l'emplacement de station estivale J.C.253 ..... 231,85 \$

**Canton de Vogt**

Compte n° 52169861  
Parcelle 17107, droits de superficie de l'emplacement de station estivale, île 387 du Lac Timagami ..... 81,39 \$

**Canton de Wyse**

Compte n° 52115043  
Domaine résiduel de la parcelle 15207, partie de l'emplacement John Guppy ..... 76,96 \$

**DISTRICT DE PARRY SOUND****Canton de Blair**

Compte n° 56705384  
Parcelle 10, 631 section nord, partie du lot 24, concession 4, partie 34, plan PSR-1323 ..... 116,99 \$

Compte n° 56705465  
Parcelle 10, 630 section nord, partie du lot 24, concession 4, partie 35, plan PSR-1323 ..... 76,96 \$

## Description des bien-fonds

**DISTRICT DE PARRY SOUND (suite)****Canton de Burpee**

Compte n° 52756715  
Parcelle 9818, section sud, partie du lot 8, concession 2 ..... 78,88 \$

**Canton de Burton**

Compte n° 53499091  
Parcelle 8696, section nord, lot 10, plan M-262 ..... 188,64 \$

Compte n° 50587878  
Parcelle 14329, section nord, lot 2, plan M-500 ..... 130,96 \$

**Canton de Croft**

Compte n° 52620694  
Partie du lot 12, concession 7, partie 2, plan 42R-13570, partie 1, plan 42R-11920, exclusion faite de la partie 1, plan 42R-13570, instrument n° 155671 ..... 134,63 \$

Compte n° 58225096  
Parcelle 18,049 section sud, partie du lot 14, concession 10, partie 3, plan 42R-3806 ..... 87,55 \$

Compte n° 54823967  
Parcelle 24898, section sud, partie du lot 16, concession 10, partie 1, 42R-12274, ainsi qu'une emprise sur les parties 3, 5, 7 et 10 du plan 42R-12274 ..... 91,26 \$

Compte n° 54823959  
Parcelle 24899, section sud, partie du lot 16, concession 10, parties 2, 3, 4 et 5 du plan 42R-12274 ..... 82,45 \$

Compte n° 50569900  
Parcelle 20888, section sud, partie du lot 18, concession 10, partie 2, plan 42R-7033 ..... 69,16 \$

**Canton d'East Mills**

Compte n° 52611750  
Parcelle 16008, section nord, lot 2, plan 42M-558 ..... 167,21 \$

Compte n° 52611687  
Parcelle 16013, section nord, lot 7, plan 42M-558 ..... 139,27 \$

**Canton de Ferguson**

Compte n° 52839831  
Partie du lot 11, concession 3, parties 1 et 5 du plan 42R-5175, instrument n° 119492 ..... 206,22 \$

**Canton de Hardy**

Compte n° 56648208  
Parcelle 10 876, section nord, station estivale, lot 20, plan M-127 ..... 281,88 \$

**Canton de Henvey**

Compte n° 52902231  
Parcelle 12598, section nord, partie du lot 2, concession A, partie 1, plan 42R-4372 ..... 310,99 \$

**Canton de Lount**

Compte n° 54824751  
Parcelle 17104, section nord, partie du lot 146, concession «A», partie 3 du plan 42R-11965 ..... 174,86 \$

## Description des bien-fonds

**DISTRICT DE PARRY SOUND (suite)****Canton de Mills**

Comptes n° 50837661 et 52966272  
Parcelle 6588, section nord, 75 acres au sud, lots 26 et 27, concession 9 .....483,52 \$

**Canton de Monteith**

Compte n° 58569011  
Parcelle 21, 294 section sud, partie du lot 23, concession B, partie 4, plan 42R-7197 .....61,96 \$

Compte n° 52988071  
Partie du lot 11, concession 3, instrument n° 71868 .....75,40 \$

Compte n° 52622662  
Parcelle 25370, section sud, partie du lot 3, concession 7, partie 1 du plan 42R-12900 .....76,94 \$

Compte n° 53005233  
Domaine résiduel de la parcelle 12547, section sud, lot 35, concession 12 .....85,91 \$

**Canton de Patterson**

Compte n° 57915129  
Parcelle 17 415, section nord. En premier lieu : partie du lot 8, plan M-347, partie 3, plan 42R-12573; en second lieu : partie de l'allocation originale de vie à terre face au lot 25, concession 4, désignée partie 4, plan 42R-12573 .....228,51 \$

**Canton de Pringle**

Compte n° 58678473  
Parcelle 13 235, section nord. En premier lieu : partie du lot 34, concession 7, partie 1, plan 42R-5258; en second lieu : partie du lot 35, concession 7, partie 2, plan 42R-5258 .....515,40 \$

**Canton de Spence**

Compte n° 53075592  
Parcelle 24161, section sud, partie du lot 33, concession 6, parties 1 et 2, plan PSR-365, ainsi qu'une emprise sur la partie 13 du plan PSR-365 et une emprise sur la partie du lot 34, concession 6, partie 14, plan PSR-365 .....76,22 \$

Compte n° 53078923  
Tout le lot 11, concession 10, instrument n° 98548 .....76,94 \$

Compte n° 53080260  
Parcelle 7774, section sud. En premier lieu : moitié est de la moitié ouest, lot 16, concession 11; en second lieu : moitié ouest de la moitié est, lot 16, concession 11 .....74,57 \$

**Canton de Wallbridge**

Compte n° 53438989  
Tout le lot 29, plan 165, instrument n° 121402, ainsi qu'une emprise sur l'instrument n° 63692 .....150,42 \$

Compte n° 53438300  
Partie 4 du plan 42R7888, bloc «B», ruisseau Bying, instrument n° 96696 .....266,01 \$

Compte n° 56916652  
Parcelle 11, 580 section nord, section de la station estivale, lot 109, plan M-307 .....149,24 \$

## Description des bien-fonds

**DISTRICT DE PARRY SOUND (suite)****Canton de Wilson**

Compte n° 58799700  
Parcelle 13, 561 section nord, lot 2, plan M-462 ..... 242,26 \$

**DISTRICT DE RAINY RIVER****Canton d'Atwood**

Compte n° 50448509  
Parcelle 14-8, section SM 75, droits de superficie sur la moitié nord du quart sud-ouest de la section 14 du plan de réserve indienne du lotissement SM-75, exclusion faite de l'expropriation S-511, partie 1, plan P2286-14 ..... 76,92 \$

Compte n° 50364178  
Parcelle 12993, droits de superficie, emplacement de station estivale EB-455 ..... 248,33 \$

**Canton de Dance**

Compte n° 50288048  
Parcelle 19727, moitié ouest de la moitié sud du lot 11, concession 2 ..... 69,08 \$

**Canton de Dewart**

Compte n° 50292169  
Domaine résiduel de la parcelle 14495, moitié est de la moitié sud du lot 3, concession 1 ..... 297,94 \$

**Canton de Nelles**

Compte n° 57305908  
Parcelle 20129, quart sud-ouest du quart sud-ouest de la section 14, exclusion faite de la portion faisant l'objet d'une expropriation pour la construction d'une autoroute, plan D-5 (D.H.O. plan P-2165-7) ..... 75,22 \$

**Canton de Senn**

Compte n° 57790652  
Parcelle 21417, emplacement de station estivale GW-102, partie 1, plan 48R-898 ..... 246,80 \$

**Canton de Sifton**

Compte n° 50323587  
Parcelle 19039, quart nord-est de la moitié nord du lot 4, concession 5 ..... 76,94 \$

**Canton de Watten**

Compte n° 50340678  
Parcelle 11830, partie du lot 36, concession 1, rang sud, exclusion faite de l'emprise de 99 pieds concédée à la Compagnie du chemin de fer Canadien du Nord ..... 150,21 \$

**DISTRICT DE SUDBURY**

Compte n° 50603199  
Parcelle 18896, section Sudbury ouest, lot 165, plan M-79, lotissement de Foleyet ..... 68,98 \$



## Description des bien-fonds

**DISTRICT DE SUDBURY (suite)**

Compte n° 50596931  
Parcelle 19373, section Sudbury ouest, lot 71, plan M-79, lotissement de Foleyet ..... 174,61 \$

Comptes n° 58456675 et 51537084  
Parcelle 25752, section Sudbury ouest, lots 199 et 206, plan M-79, lotissement de Foleyet ..... 254,29 \$

Compte n° 50595463  
Parcelle 11254, section Sudbury ouest, lot 153, plan M-79, lotissement de Foleyet ..... 135,38 \$

Compte n° 50616240  
Parcelle 19496, section Sudbury ouest, lots 165 et 166, plan M-200, lotissement de Gogama

Parcelle 21026, section Sudbury ouest, lot 167, plan M-200, lotissement de Gogama ..... 281,44 \$

Compte n° 50280322  
Parcelle 11582, section Sudbury ouest, lot 25, plan M-96, lotissement de Nemegos ..... 140,25 \$

**Canton d'Awrey**

Compte n° 57698667  
Parcelle 36601, section Sudbury est, droits de superficie du lot 46, plan M-411 ..... 206,16 \$

**Canton de Bigwood**

Compte n° 54496940  
Domaine résiduel de la parcelle 3795, section Sudbury est, partie du lot morcelé 3, concession 2, partie 1, plan SR-1552 et partie 2, plan 53R-8794, parcelle 30138, section Sudbury est, partie du lot 3, concession 2, partie 1, plan SR-131 ..... 820,21 \$

Compte n° 54511884  
Domaine résiduel de la parcelle 11030, section Sudbury est, partie nord du lot morcelé 4, concession 6, partie 1, plan SR-2080.. 242,43 \$

**Canton de Cartier**

Compte n° 55241198  
Instrument n° 108349, plan 533, lot 19, bloc 10 ..... 125,32 \$

**Canton de Cochrane**

Compte n° 50253279  
Parcelle 5430, section Sudbury ouest, moitié nord, lot 6, concession 6 ..... 106,96 \$

**Canton de Curtin**

Compte n° 50042863  
Instrument n° 589133, partie du lot 13, plan 45S, plan condominial 5 de Sudbury, unité 11 ..... 109,14 \$

Compte n° 50599213  
Instrument n° 106695, partie du lot 30, plan 45S, partie 1, plan 53R-9550 ..... 665,70 \$

Compte n° 54981643  
Instrument n° 88114, plan 45S, réserve indienne de Whitefish, numéro quatre (4), lot D ..... 92,25 \$

## Description des bien-fonds

**DISTRICT DE SUDBURY (suite)****Canton de D'Arcy**

Compte n° 58537624  
Parcelle 26527, section Sudbury ouest, partie du lot 8, concession 2, partie 2, plan 53R-7948 ..... 76,98 \$

**Canton de Dill**

Compte n° 54619715  
Parcelle 31942, section Sudbury est, partie de la moitié nord du lot 2, concession 1, partie 2, plan SR-954, parcelle 31943, section Sudbury est, partie de la moitié nord du lot 2, concession 1, partie 3, plan SR-954 parcelle 31944, section Sudbury est, parties de la moitié nord du lot 2, concession 1, parties 1 et 5, plan SR-954 ..... 342,85 \$

**Canton de Dryden**

Compte n° 59216830  
Parcelle 27254, section Sudbury est, partie du lot 6, concession 1, emplacement T.R. 53 ..... 131,30 \$

**Canton de Foleyet**

Compte n° 52607213  
Parcelle 29807, section Sudbury ouest, partie du lot 6, concession 5, exclusion faite de la partie 2, plan 53R-8293 ..... 76,96 \$

**Canton de Loughrin**

Compte n° 54653107  
Parcelle 21632, section Sudbury est, moitié ouest de la moitié ouest du lot 1, concession 1 ..... 216,29 \$

**Canton de Munster**

Compte n° 54830963  
Parcelle 13349A, section Sudbury ouest, emplacement de station estivale A.E. 499 ..... 217,40 \$

**Canton de Penhorwood**

Compte n° 55700974  
Droits de superficie des parcelles suivantes : parcelle 19238, section Sudbury ouest, emplacement minier C.L. M. 105, soit les claims miniers suivants : S.109676, S.109677 S.109678, S.109679, S.109690, S.109691, S.111576, S.111577, S.111578, S.111579 S.111580, S.111581.

Parcelle 19239, section Sudbury ouest, emplacement minier C.L. M. 102, soit les claims miniers suivants : S.108313, S.109674, S.109675, S.111582, S.111583, S.111584, S.111585, S.111586, S.111587, S.111588, S.111589, S.111713.

Parcelle 19244, section Sudbury ouest, emplacement minier C.L. M. 100, soit les claims miniers suivants : S.107969, S.107970, S.107971, S.107972, S.107976, S.107977, S.107978, S.107979, S.107983, S.107984, S.108001, S.108002, S.109496, S.109497, S.109498, S.111712.

Parcelle 19245, section Sudbury ouest, emplacement minier C.L. M. 101, soit les claims miniers suivants : S.107973, S.107980, S.107985, S.107986, S.107987, S.107988, S.108003, S.108004, S.108005, S.108010, S.108011, S.108012, S.109499, S.109500, S.109501, S.109502. .... 610,97 \$

## Description des bien-fonds

**DISTRICT DE SUDBURY (suite)****Canton de Servos**

Compte n° 54755724  
Parcelle 21873, section Sudbury est, partie du lot 5, concession 4, domaine résiduel de la parcelle 15681, emplacement de station estivale, partie du lot 5, concession 4 .....86,40 \$

**DISTRICT DE THUNDER BAY**

Compte n° 55081221  
Parcelle 21153. En premier lieu : portion du claim minier TB-23994, partie 1 du plan 55R-5005; en second lieu : droits de superficie, partie de l'emplacement CL-3060, partie du claim minier TB-23994, partie 1, plan 55R-5085 .....125,32 \$

Compte n° 50530612  
Parcelle 9287, lots 10 et 11, bloc 5, plan M-12, village de Rossport .....120,24 \$

Compte n° 50533701  
Parcelle 10043, lot 43, plan M-93, lotissement de MacDiarmid.

Parcelle 10905, lot 44, plan M-93, lotissement de MacDiarmid .....76,92 \$

Compte n° 50540251  
Parcelle 13921, droits de superficie du lot 58, plan M.105, lotissement de Jellicoe .....99,24 \$

Compte n° 54384971  
Parcelle 22442, lot 17, plan M-358 .....76,94 \$

Compte n° 54814496  
Parcelle 2-1, section 55M-445, lot 2, plan 55M-445 .....263,73 \$

Compte n° 54837194  
Parcelle 11-1, section 55M-445, lot 11, plan 55M-445 .....225,34 \$

**Canton d'Ashmore**

Compte n° 58349127  
Domaine résiduel de la parcelle 29-1, section M-304, droits de superficie du lot 29, plan M-304 .....78,68 \$

**Canton de Dawson Road**

Compte n° 52263212  
Parcelle 16730, droits de superficie du lot 37, concession «A» .....351,56 \$

Compte n° 57581328  
Parcelle 2767, propriété franche de Fort William, partie du lot 19, concession 1 .....76,94 \$

**Canton de Devon**

Compte n° 58002003  
Parcelle 24073, partie du lot 39, concession 3, partie 2, plan 55R-8088 .....76,92 \$

**Canton de Forbes**

Compte n° 52282501  
Parcelle 25610. En premier lieu : partie nord, partie du lot 14, concession 3, partie 2, plan 55R-9913; en second lieu : partie nord, partie du lot 14, concession 3, parties 3 et 9, plan 55R-9913 .....171,92 \$

**Canton de Fowler**

Compte n° 52593824  
Parcelle 8836, emplacement de station estivale, lot 7, plan M-119 .....179,42 \$

## Description des bien-fonds

**DISTRICT DE THUNDER BAY (suite)****Canton de Fowler**

Compte n° 52613639  
Parcelle 12529, lot 17, plan M-204 .....150,93 \$

Compte n° 58186074  
Parcelle 17760, droits de superficie de la station estivale, lot 6, plan M-295 .....159,45 \$

**Canton de Gorham**

Compte n° 52301343  
Parcelle 22788, partie du lot 1, concession 1 .....333,43 \$

Compte n° 52313341  
Parcelle 13884, droits de superficie de la moitié sud du lot 17, concession 3 .....427,56 \$

Compte n° 58163864  
Parcelle 20257, partie de la moitié est de la moitié nord du lot 5, concession 4, partie 1, plan 55R-4875 .....122,14 \$

Compte n° 52333105  
Parcelle 8700, partie sud-est du lot morcelé 18, concession 7 .....313,64 \$

**Canton de Jacques**

Compte n° 56539182  
Parcelle 14670, lot 14, plan M-206 .....162,91 \$

Compte n° 52340152  
Parcelle 8435, partie sud de la partie du lot morcelé 2, concession 2 .....64,77 \$

**Canton de Kilkenny**

Compte n° 50496724  
Parcelle 10444, emplacement DC-9 .....76,96 \$

**Canton de Lybster**

Compte n° 58083437  
Parcelle 5-10, section Con-5, droits de superficie, portion de la moitié nord du lot 5, concession 5, parties 1, 2, 4 et 5, plan FWR-440 .....110,31 \$

Compte n° 52352312  
Parcelle 4181, propriété franche de Fort William, droits de superficie, portion de la moitié nord du lot 5, concession 5

Parcelle 4468, propriété franche de Fort William, portion de la moitié nord du lot 5, concession 5

Parcelle 18897, partie de l'emplacement R.K.-951, partie du lot 5, concession 5 partie 2, plan 55R-3812

Parcelle 17836, portion de l'emplacement R.K.951, partie du lot 5, concession 5, parties 2 et 6, plan 55R-2486 .....169,35 \$

**Canton de Lyon**

Compte n° 52358256  
Parcelle 2932, moitié est du lot 15, concession 4 .....87,09 \$

Compte n° 52359481  
Parcelle 14167, partie de la moitié ouest du lot 1, concession 6 .....71,74 \$

## Description des bien-fonds

**DISTRICT DE THUNDER BAY (suite)****Canton de Lyon (suite)**

Compte n° 57102659

Parcelle 17993, moitié ouest de la moitié est du lot 1, concession 10  
..... 76,94 \$

Compte n° 52091853

Parcelle 22115, partie du lot 7, concession 11, partie 1, plan 55R-6039  
..... 565,01 \$**Canton de Marks**

Compte n° 58313629

Domaine résiduel de la parcelle 15676, partie de la moitié nord du lot 3, concession 3, partie 1, plan 55R-628 ..... 127,09 \$

Compte n° 52653550

Parcelle 24987, partie de la moitié sud du lot 5, concession 3, partie 1 du plan 55R-9120 ..... 183,54 \$

**Canton de Scoble**

Compte n° 52502497

Parcelle 16937, emplacement minier R-25 ..... 64,04 \$

**Canton d'Upsala**

Compte n° 52605822

Parcelle 1-1, section 55M-488, lot 1, plan M-488 ..... 89,05 \$

Compte n° 52605962

Parcelle 3-1, section 55M-488, lot 3, plan 55M-488 ..... 89,13 \$

Compte n° 52606179

Parcelle 7-1, section 55M-488, lot 7, plan M-488 ..... 89,05 \$

Compte n° 56292365

Parcelle 2812, domaine franc de Fort William, partie de la moitié sud du lot 3, concession 1 ..... 264,56 \$

Compte n° 52411351

Parcelle 6343, domaine franc de Fort William, partie du lot 4, concession 1 ..... 740,10 \$

Compte n° 52411696

Parcelle 4911, domaine franc de Fort William, moitié sud du lot 5, concession 1 ..... 137,14 \$

Compte n° 52414288

Parcelle 3152, domaine franc de Fort William, partie sud du lot morcelé 9, concession 2 ..... 509,26 \$

**Canton de Ware**

Compte n° 54817495

Parcelle 22957, partie de la moitié nord du lot 7, concession 1, partie 1 du plan 55R-6749 ..... 145,52 \$

Compte n° 58032123

Domaine résiduel, parcelle 15828, partie de la moitié sud du lot 2, concession 4 ..... 613,76 \$

Compte n° 54201001

Parcelle 20506, moitié sud du lot 5, concession 5, partie 3, plan 55R-4201 ..... 411,49 \$

(6106) 49

**Loan and Trust Corporations Act,****R.S.O. 1990****Loi sur les sociétés de prêt et de fiducie,****L.R.O. 1990****PUBLIC NOTICE**

NOTICE IS HEREBY GIVEN that the registration of Victoria and Grey Mortgage Corporation with its Head Office in Stratford, Ontario, has been revoked at the request of the Corporation pursuant to section 36 of the *Loan and Trust Corporations Act*, R.S.O. c.L.25 effective November 21, 1997.

(6108) 49

D. ROSS PEEBLES,

Superintendent of Deposit Institutions.

**Municipal Act****Loi sur les municipalités**

**ORDER MADE UNDER THE  
MUNICIPAL ACT R.S.O. 1990, c. M.45**

**ORDER****COUNTY OF ESSEX**

**TOWN OF AMHERSTBURG, TOWN OF BELLE RIVER,  
TOWN OF ESSEX, TOWN OF HARROW,  
TOWN OF KINGSVILLE, TOWN OF LASALLE,  
TOWN OF LEAMINGTON, TOWN OF TECUMSEH,  
VILLAGE OF ST. CLAIR BEACH, TOWNSHIP OF  
ANDERDON, TOWNSHIP OF COLCHESTER NORTH,  
TOWNSHIP OF COLCHESTER SOUTH, TOWNSHIP OF  
GOSFIELD NORTH, TOWNSHIP OF GOSFIELD SOUTH,  
TOWNSHIP OF MAIDSTONE, TOWNSHIP OF MALDEN,  
TOWNSHIP OF MERSEA, TOWNSHIP OF ROCHESTER,  
TOWNSHIP OF SANDWICH SOUTH, TOWNSHIP OF  
TILBURY NORTH, TOWNSHIP OF TILBURY WEST**

**DEFINITIONS**

1. In this Order,

"County" means The Corporation of the County of Essex;

"former municipalities" means The Corporation of the Town of Essex, The Corporation of the Town of Harrow, The Corporation of the Town of Kingsville, The Corporation of the Town of Leamington, The Corporation of the Town of Tecumseh, The Corporation of the Village of St. Clair Beach, The Corporation of the Township of Colchester North, The Corporation of the Township of Colchester South, The Corporation of the Township of Gosfield North, The Corporation of the Township of Gosfield South, The Corporation of Lakeshore Township, The Corporation of the Township of Mersea, The Corporation of the Township of Rochester, The Corporation of the Township of Sandwich South, The Corporation of the Township of Tilbury North and The Corporation of the Township of Tilbury West as they exist on December 31, 1998;

"former Police Village of Comber" means the Police Village of Comber as it exists on December 31, 1998;

"former Town of Belle River" means The Corporation of the Town of Belle River as it exists on December 31, 1997;

"former Township of Anderdon" means The Corporation of the Township of Anderdon as it exists on December 31, 1997;

"former Township of Maidstone" means The Corporation of the Township of Maidstone as it exists on December 31, 1997;



"former Township of Malden" means The Corporation of the Township of Malden as it exists on December 31, 1997;

"new municipalities" means The Corporation of the Town of Colchester-Essex-Harrow, The Corporation of the Town of Kingsville/Gosfield, The Corporation of the Town of Lakeshore-Rochester-Tilbury North - Tilbury West, The Corporation of the Town of Leamington and The Corporation of the Town of Sandwich South-Tecumseh-St. Clair Beach as established on January 1, 1999, under this Order;

"Town of Amherstburg" means The Corporation of the Town of Amherstburg as it exists on December 31, 1998; and

"Town of Lasalle" means The Corporation of the Town of Lasalle as it exists on December 31, 1998.

## MUNICIPAL RESTRUCTURING

2. (1) On January 1, 1999, The Corporation of the Town of Essex, The Corporation of the Town of Harrow, The Corporation of the Township of Colchester North and The Corporation of the Township of Colchester South are amalgamated as a town under the name of "The Corporation of the Town of Colchester-Essex-Harrow".

(2) On January 1, 1999, The Corporation of the Town of Kingsville, The Corporation of the Township of Gosfield North and The Corporation of the Township of Gosfield South are amalgamated as a town under the name of "The Corporation of the Town of Kingsville/Gosfield".

(3) On January 1, 1999, The Corporation of Lakeshore Township, The Corporation of the Township of Rochester, The Corporation of the Township of Tilbury North and The Corporation of the Township of Tilbury West are amalgamated as a town under the name "The Corporation of the Town of Lakeshore-Rochester-Tilbury North-Tilbury West".

(4) On January 1, 1999, The Corporation of the Town of Leamington and The Corporation of the Township of Mersea are amalgamated as a town under the name "The Corporation of the Town of Leamington".

(5) On January 1, 1999, The Corporation of the Town of Tecumseh, The Corporation of the Village of St. Clair Beach and The Corporation of the Township of Sandwich South are amalgamated as a town under the name "The Corporation of the Town of Sandwich South-Tecumseh-St. Clair Beach".

## NAME CHANGE

3. The names of the new municipalities as set out in this Order may be changed upon a request (resolution) to the Minister of Municipal Affairs and Housing made,

- (a) prior to January 1, 1999, by the transition boards established for each of the former municipalities under subsections 82(1), 83(1), 84(1), 85(1) and 86(1); and
- (b) between January 1 and December 31, 1999, by the councils of new municipalities established under section 2.

## WARDS

4. Effective January 1, 1999, all wards in the former municipalities are dissolved.

5. (1) Effective January 1, 1999, the new Town of Colchester-Essex-Harrow shall be divided into four wards as set out in this section.

(2) Ward one shall be composed of land that composed the former Town of Essex.

(3) Ward two shall be composed of land that composed the former Township of Colchester North.

(4) Ward three shall be composed of land that composed the former Township of Colchester South.

(5) Ward four shall be composed of land that composed the former Town of Harrow.

6. (1) Effective January 1, 1999, the new Town of Kingsville/Gosfield shall be divided into three wards as set out in this section.

(2) Ward one shall be composed of land that composed the former Township of Gosfield North.

(3) Ward two shall be composed of land that composed the former Township of Gosfield South.

(4) Ward three shall be composed of land that composed the former Town of Kingsville.

7. (1) Effective January 1, 1999, the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West shall be divided into five wards as set out in this section.

(2) Ward one shall be composed of land that composed the former Township of Maidstone.

(3) Ward two shall be composed of land that composed the former Town of Belle River.

(4) Ward three shall be composed of land that composed the former Township of Rochester.

(5) Ward four shall be composed of land that composed the former Township of Tilbury North.

(6) Ward five shall be composed of land that composed the former Township of Tilbury West.

8. (1) Effective January 1, 1999, the new Town of Sandwich South-Tecumseh-St. Clair Beach shall be divided into four wards as set out in this section.

(2) Ward one shall be composed of land that composed the former Town of Tecumseh.

(3) Ward two shall be composed of land that composed the former Town of St. Clair Beach.

(4) Ward three shall be composed of land that composed the former Township of Sandwich South lying to the north of County Road 42.

(5) Ward four shall be composed of land that composed the former Township of Sandwich South lying to the south of County Road 42.

## LOCAL COUNCILS

9. (1) The terms of office of the members of the councils of the former municipalities elected in the 1997 regular municipal election shall expire on December 31, 1998.

(2) The members of council of the new municipalities shall take office on January 1, 1999, and shall hold office until the regular municipal election in 2000.

10. (1) Effective January 1, 1999, the council of the new Town of Colchester-Essex-Harrow shall be composed of seven members consisting of,

- (a) a head of council, to be known as the mayor, who shall be elected by general vote;

- (b) two members each from Ward One and Ward three; and
- (c) one member each from Ward two and Ward four.

(2) A deputy head of council, to be known as the deputy mayor, shall be elected at the first meeting of council by the other members of council from among the members of council referred to in clauses (1)(b) and (c).

(3) Each member of council shall have one vote.

11. (1) Effective January 1, 1999, the council of the new Town of Kingsville/Gosfield shall be composed of seven members consisting of,

- (a) a head of council, to be known as the mayor, who shall be elected by general vote; and
- (b) two members from each of the wards.

(2) A deputy head of council, to be known as the deputy mayor, shall be elected at the first meeting of council by the other members of council from among the members of council referred to in clauses (1)(b) and (c).

(3) Each member of council shall have one vote.

12. (1) Effective January 1, 1999, the council of the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West shall be composed of nine members consisting of,

- (a) a head of council, to be known as the mayor, who shall be elected by general vote;
- (b) a deputy head of council, to be known as the deputy mayor, who shall be elected by general vote;
- (c) three members from Ward One; and
- (d) one member each from Ward two, Ward three, Ward four and Ward five.

(2) Each member of council shall have one vote.

13. (1) Effective January 1, 1999, the council of the new Town of Leamington shall be composed of seven members to be elected at large consisting of,

- (a) a head of council, to be known as the mayor;
- (b) a deputy head of council, to be known as the deputy mayor; and
- (c) five members.

(2) Each member of council shall have one vote.

14. (1) Effective January 1, 1999, the council of the new Town of Sandwich South-Tecumseh-St. Clair Beach shall be composed of seven members consisting of,

- (a) a head of council, to be known as the mayor, who shall be elected by general vote;
- (b) a deputy head of council, to be known as the deputy mayor, who shall be elected by general vote;
- (c) two members from Ward One; and
- (d) one member each from Ward two, Ward three and Ward four.

(2) Each member of council shall have one vote.

## COUNTY COUNCIL

15. (1) The terms of office of the members of County council from the former municipalities elected in the 1997 regular municipal election shall expire on December 31, 1998.

(2) The members of County council shall take office on January 1, 1999, and shall hold office until the regular municipal election in 2000.

16. (1) Effective January 1, 1999, the council of the County of Essex shall be composed of fourteen members of council consisting of,

- (a) the mayors of the councils of the new municipalities;
- (b) the deputy mayors of the councils of the new municipalities;
- (c) the mayor and deputy mayor of the council of the Town of Amherstburg; and
- (d) the mayor and deputy mayor of the council of the Town of Lasalle.

(2) Each member of County council shall have one vote.

17. (1) Prior to January 1, 2001, County council shall review the status and role of the county government.

## MUNICIPAL ELECTIONS

18. (1) On November 9, 1998, an election shall be held in accordance with section 65 of the *Municipal Elections Act, 1996* to elect the members of the councils of the new municipalities.

(2) For the purposes of subsection 65(4) of the *Municipal Elections Act, 1996*, nomination day shall be October 9, 1998.

(3) The 1998 municipal election under subsection (1) shall be conducted as if the restructuring under section 2 had already occurred.

19. (1) For the purposes of subsection 18(1), the clerk of the former Town of Essex shall be responsible for conducting the election for the new Town of Colchester-Essex-Harrow under the *Municipal Elections Act, 1996*.

(2) For the purposes of subsection 18(1), the council of the former Town of Essex shall be responsible for conducting the election for the new Town of Colchester-Essex-Harrow under the *Municipal Elections Act, 1996*.

20. (1) For the purposes of subsection 18(1), the clerk of the former Township of Gosfield South shall be responsible for conducting the election for the new Town of Kingsville/Gosfield under the *Municipal Elections Act, 1996*.

(2) For the purposes of subsection 18(1), the council of the former Township of Gosfield South shall be responsible for conducting the election for the new Town of Kingsville/Gosfield under the *Municipal Elections Act, 1996*.

21. (1) For the purposes of subsection 18(1), the clerk of the former Lakeshore Township shall be responsible for conducting the election for the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West under the *Municipal Elections Act, 1996*.

(2) For the purposes of subsection 18(1), the council of the former Lakeshore Township shall be responsible for conducting the election for the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West under the *Municipal Elections Act, 1996*.

22. (1) For the purposes of subsection 18(1), the clerk of the former Town of Leamington shall be responsible for conducting the election for the new Town of Leamington under the *Municipal Elections Act, 1996*.



(2) For the purposes of subsection 18(1), the council of the former Town of Leamington shall be responsible for conducting the election for the new Town of Leamington under the *Municipal Elections Act, 1996*.

**23.** (1) For the purposes of subsection 18(1), the clerk of the former Town of Tecumseh shall be responsible for conducting the election for the new Town of Sandwich South-Tecumseh-St. Clair Beach under the *Municipal Elections Act, 1996*.

(2) For the purposes of subsection 18(1), the council of the former Town of Tecumseh shall be responsible for conducting the election for the new Town of Sandwich South-Tecumseh-St. Clair Beach under the *Municipal Elections Act, 1996*.

#### **LIBRARY BOARD**

**24.** (1) The library boards of the former Lakeshore Township and the former Town of Leamington are dissolved on January 1, 1999.

(2) The terms of office of the members of the library boards of the former Lakeshore Township and the former Town of Leamington expire on December 31, 1998.

(3) The assets and liabilities of the library board of the former Town of Lakeshore dissolved under subsection (1) shall be deemed to be assets and liabilities of the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West.

(4) The assets and liabilities of the library board of the former Town of Leamington dissolved under subsection (1) shall be deemed to be assets and liabilities of the new Town of Leamington.

(5) All by-laws, rules, regulations and fees passed or established by the library boards dissolved under subsection (1) shall be continued and deemed to be by-laws, rules, regulations and fees of the Essex County library board.

(6) Nothing in this section repeals or authorizes the repeal of by-laws or resolutions conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by a library board dissolved under subsection (1).

#### **POLICE SERVICES BOARDS**

**25.** (1) The police services board of the former Town of Essex and the joint police services board of the former Town of Harrow and the former Township of Colchester South are dissolved on January 1, 1999.

(2) A police services board for the new Town of Colchester-Essex-Harrow to be known as the "The Police Services Board of Colchester-Essex-Harrow" is established on January 1, 1999.

(3) The operation and composition of the police services board established under subsection (2) shall be in accordance with the *Police Services Act*.

(4) On January 1, 1999, the police services board established under subsection (2) stands in the place of the police services boards dissolved under subsection (1).

(5) The new municipality stands in the place of the former municipalities for all purposes related to policing.

(6) The assets and liabilities under the control and management of the police services boards dissolved under subsection (1) become assets and liabilities under the control and management of the police services board established under subsection (2).

(7) On January 1, 1999, all by-laws and resolutions of the police services boards dissolved under subsection (1) shall be deemed to be by-laws or resolutions of the police services board established under subsection (2) and shall remain in force in the area of the former municipality until the earlier of,

(a) the date they are amended or repealed; or

(b) December 31, 2003.

(8) Nothing in this section repeals or authorizes the repeal of by-laws or resolutions conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by a police services board dissolved under subsection (1).

**26.** (1) The police services board of the former Town of Kingsville is dissolved on January 1, 1999.

(2) A police services board for the new Town of Kingsville/Gosfield to be known as the "The Police Services Board of Kingsville/Gosfield" is established on January 1, 1999.

(3) The operation and composition of the police services board established under subsection (2) shall be in accordance with the *Police Services Act*.

(4) On January 1, 1999, the police services board established under subsection (2) stands in the place of the police services board dissolved under subsection (1).

(5) The new municipality stands in the place of the former municipalities for all purposes related to policing.

(6) The assets and liabilities under the control and management of the police services board dissolved under subsection (1) become assets and liabilities under the control and management of the police services board established under subsection (2).

(7) On January 1, 1999, all by-laws and resolutions of the police services board dissolved under subsection (1) shall be deemed to be by-laws or resolutions of the police services board established under subsection (2) and shall remain in force in the area of the former municipality until the earlier of,

(a) the date they are amended or repealed; or

(b) December 31, 2003.

(8) Nothing in this section repeals or authorizes the repeal of by-laws or resolutions conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the police services board dissolved under subsection (1).

**27.** (1) The police services boards of the former Town of Leamington and the former Township of Mersea are dissolved on January 1, 1999.

(2) A police services board for the new Town of Leamington to be known as the "The Police Services Board of Leamington" is established on January 1, 1999.

(3) The operation and composition of the police services board established under subsection (2) shall be in accordance with the *Police Services Act*.

(4) On January 1, 1999, the police services board established under subsection (2) stands in the place of the police services boards dissolved under subsection (1).

(5) The new municipality stands in the place of the former municipalities for all purposes related to policing.

(6) The assets and liabilities under the control and management of the police services boards dissolved under subsection (1) become assets and liabilities under the control and management of the police services board established under subsection (2).

(7) On January 1, 1999, all by-laws and resolutions of the police services boards dissolved under subsection (1) shall be deemed to be by-laws or resolutions of the police services board established under subsection (2) and shall remain in force in the area of the former municipality until the earlier of,



- (a) the date they are amended or repealed; or
- (b) December 31, 2003.

(8) Nothing in this section repeals or authorizes the repeal of by-laws or resolutions conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by a police services board dissolved under subsection (1).

**28.** (1) The police services board of the former Village of St. Clair Beach is dissolved on January 1, 1999.

(2) A police services board for the new Town of Sandwich South-Tecumseh-St. Clair Beach to be known as the "The Police Services Board of Sandwich South-Tecumseh-St. Clair Beach" is established on January 1, 1999.

(3) The operation and composition of the police services board established under subsection (2) shall be in accordance with the *Police Services Act*.

(4) On January 1, 1999, the police services board established under subsection (2) stands in the place of the police services board dissolved under subsection (1).

(5) The new municipality stands in the place of the former municipalities for all purposes related to policing.

(6) The assets and liabilities under the control and management of the police services board dissolved under subsection (1) become assets and liabilities under the control and management of the police services board established under subsection (2).

(7) On January 1, 1999, all by-laws and resolutions of the police services board dissolved under subsection (1) shall be deemed to be by-laws or resolutions of the police services board established under subsection (2) and shall remain in force in the area of the former municipality until the earlier of,

- (a) the date they are amended or repealed; or
- (b) December 31, 2003.

(8) Nothing in this section repeals or authorizes the repeal of by-laws or resolutions conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the police services board dissolved under subsection (1).

#### **PUBLIC UTILITIES COMMISSION FOR THE NEW TOWN OF COLCHESTER-ESSEX-HARROW**

**29.** (1) The public utilities commission of the former Town of Essex and the hydro-electric commission of the former Town of Harrow are dissolved on January 1, 1999.

(2) The terms of office of the members of the public utilities commission of the former Town of Essex and hydro-electric commission of the former Town of Harrow expire on December 31, 1998.

**30.** (1) On January 1, 1999, a public utilities commission is established for the new Town of Colchester-Essex-Harrow bearing the name "The Hydro-Electric Commission for the Town of Colchester-Essex-Harrow".

(2) The commission established under subsection (1) shall distribute and supply electrical power to the hydro service area of the public utilities commission of the former Town of Essex and the hydro-electric commission of the former Town of Harrow.

(3) The commission established under subsection (1) shall be subject to the provisions of the *Public Utilities Act* and the *Power Corporation Act*.

(4) The commission established under subsection (1) shall consist of seven members, of whom the head of council shall be one by virtue of office and the six other members shall be the members of the council of the new Town of Colchester-Essex-Harrow.

**31.** (1) On January 1, 1999, all by-laws and resolutions of the public utilities commission of the former Town of Essex and of the hydro-electric commission of the former Town of Harrow that relate to the distribution and supply of electrical power shall be continued and deemed to be by-laws and resolutions of the commission established under subsection 30(1) and shall remain in force until the earlier of,

- (a) the date they are amended or repealed; or
- (b) December 31, 2003.

(2) On January 1, 1999, all by-laws and resolutions of the public utilities commission of the former Town of Essex that relate to the production, treatment, distribution and supply of water shall be continued and deemed to be by-laws and resolutions of the new Town of Colchester-Essex-Harrow and shall remain in force until the earlier of,

- (a) the date they are amended or repealed; or
- (b) December 31, 2003.

(3) Nothing in this section repeals or authorizes the repeal of by-laws or resolutions conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the commissions dissolved under subsection 29(1).

**32.** (1) All assets and liabilities, rights and obligations of the public utilities commission of the former Town of Essex and of the hydro-electric commission of the former Town of Harrow that relate to the distribution and supply of electrical power become assets and liabilities, rights and obligations of the commission established under subsection 30(1).

(2) All assets and liabilities, rights and obligations of the public utilities commission of the former Town of Essex that relate to the production, treatment, distribution and supply of water become assets and liabilities, rights and obligations of the new Town of Colchester-Essex-Harrow.

#### **PUBLIC UTILITIES COMMISSION FOR THE NEW TOWN OF KINGSVILLE/GOSFIELD**

**33.** (1) The (Cottam) hydro-electric commission of the former Township of Gosfield North and the public utilities commission of the former Town of Kingsville are dissolved on January 1, 1999.

(2) The terms of office of the members of the (Cottam) hydro-electric commission of the former Township of Gosfield North and the public utilities commission of the former Town of Kingsville expire on December 31, 1998.

**34.** (1) On January 1, 1999, a public utilities commission is established for the new Town of Kingsville/Gosfield bearing the name "The Hydro-Electric Commission for the Town of Kingsville/Gosfield".

(2) The commission established under subsection (1) shall distribute and supply electrical power to the hydro service area of the (Cottam) hydro-electric commission of the former Township of Gosfield North and the public utilities commission of the former Town of Kingsville.

(3) The commission established under subsection (1) shall be subject to the provisions of the *Public Utilities Act* and the *Power Corporation Act*.

(4) The commission established under subsection (1) shall consist of three members, of whom the head of council shall be one by virtue of office and the two other members shall be the appointed by and from the council of the new Town of Kingsville/Gosfield.

**35.** (1) On January 1, 1999, all by-laws and resolutions of the (Cottam) hydro-electric commission of the former Township of Gosfield North and the public utilities commission of the former Town of Kingsville that relate to the distribution and supply of electrical

power shall be continued and deemed to be by-laws and resolutions of the commission established under subsection 34(1) and shall remain in force until the earlier of,

- (a) the date they are amended or repealed; or
- (b) December 31, 2003.

(2) On January 1, 1999, all by-laws and resolutions of the public utilities commission of the former Town of Kingsville that relate to the production, treatment, distribution and supply of water shall be continued and deemed to be by-laws and resolutions of the new Town of Kingsville/Gosfield and shall remain in force until the earlier of,

- (a) the date they are amended or repealed; or
- (b) December 31, 2003.

(3) Nothing in this section repeals or authorizes the repeal of by-laws or resolutions conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the commission dissolved under subsection 33(1).

**36.** (1) All assets and liabilities, rights and obligations of the (Cottam) hydro-electric commission of the former Township of Gosfield North and public utilities commission of the former Town of Kingsville that relate to the distribution and supply of electrical power become assets and liabilities, rights and obligations of the commission established under subsection 34(1).

(2) All assets and liabilities, rights and obligations of the public utilities commission of the former Town of Kingsville that relate to the production, treatment, distribution and supply of water become assets and liabilities, rights and obligations of the new Town of Kingsville/Gosfield.

#### **PUBLIC UTILITIES COMMISSION FOR THE NEW TOWN OF LAKESHORE-ROCHESTER-TILBURY NORTH-TILBURY WEST**

**37.** (1) The hydro-electric commission of the former Lakeshore Township is dissolved on January 1, 1999.

(2) The terms of office of the members of the hydro-electric commission of the former Lakeshore Township expire on December 31, 1998.

**38.** (1) On January 1, 1999, a public utilities commission is established for the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West bearing the name "The Hydro-Electric Commission for the Town of Lakeshore-Rochester-Tilbury North-Tilbury West".

(2) The commission established under subsection (1) shall distribute and supply electrical power to the hydro service area of the hydro-electric commission of the former Lakeshore Township and the former Police Village of Comber dissolved under subsection 49(1).

(3) The commission established under subsection (1) shall be subject to the provisions of the *Public Utilities Act* and the *Power Corporation Act*.

(4) The commission established under subsection (1) shall consist of three members, of whom the head of council shall be one by virtue of office and the two other members shall be the appointed by and from the council of the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West.

**39.** (1) On January 1, 1999, all by-laws and resolutions of the hydro-electric commission of the former Lakeshore Township that relate to the distribution and supply of electrical power shall be continued and deemed to be by-laws and resolutions of the commission established under subsection 38(1) and shall remain in force until the earlier of,

- (a) the date they are amended or repealed; or

- (b) December 31, 2003.

(2) Nothing in this section repeals or authorizes the repeal of by-laws or resolutions conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the commission dissolved under subsection 37(1).

**40.** All assets and liabilities, rights and obligations of the hydro-electric commission of the former Lakeshore Township that relate to the distribution and supply of electrical power become assets and liabilities, rights and obligations of the commission established under subsection 38(1).

#### **PUBLIC UTILITIES COMMISSION FOR THE NEW TOWN OF LEAMINGTON**

**41.** (1) The public utilities commission of the former Town of Leamington is dissolved on January 1, 1999.

(2) The terms of office of the members of the public utilities commission of the former Town of Leamington expire on December 31, 1998.

**42.** (1) On January 1, 1999, a public utilities commission is established for the new Town of Leamington bearing the name "The Hydro-Electric Commission for the Town of Leamington".

(2) The commission established under subsection (1) shall distribute and supply electrical power to the hydro service area of the public utilities commission of the former Town of Leamington.

(3) The commission established under subsection (1) shall be subject to the provisions of the *Public Utilities Act* and the *Power Corporation Act*.

(4) The commission established under subsection (1) shall consist of three members, of whom the head of council shall be one by virtue of office and the two other members shall be the appointed by and from the council of the new Town of Leamington.

**43.** (1) On January 1, 1999, all by-laws and resolutions of the former Town of Leamington and of the public utilities commission of the former Town of Leamington that relate to the distribution and supply of electrical power shall be continued and deemed to be by-laws and resolutions of the commission established under subsection 42(1) and shall remain in force until the earlier of,

- (a) the date they are amended or repealed; or
- (b) December 31, 2003.

(2) On January 1, 1999, all by-laws and resolutions of the public utilities commission of the former Town of Leamington that relate to the production, treatment, distribution and supply of water shall be continued and deemed to be by-laws and resolutions of the new Town of Leamington and shall remain in force until the earlier of,

- (a) the date they are amended or repealed; or
- (b) December 31, 2003.

(3) Nothing in this section repeals or authorizes the repeal of by-laws or resolutions conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the commission dissolved under subsection 41(1).

**44.** (1) All assets and liabilities, rights and obligations of the public utilities commission of the former Town of Leamington that relate to the distribution and supply of electrical power become assets and liabilities, rights and obligations of the commission established under subsection 42(1).

(2) All assets and liabilities, rights and obligations of the public utilities commission of the former Town of Leamington that relate to the production, treatment, distribution and supply of water become assets and liabilities, rights and obligations of the new Town of Leamington.



# **PUBLIC UTILITIES COMMISSION FOR THE NEW TOWN OF SANDWICH SOUTH-TECUMSEH-ST. CLAIR BEACH**

45. (1) The public utilities commission of the former Town of Tecumseh and the hydro-electric commission of the former Village of St. Clair Beach are dissolved on January 1, 1999.

(2) The terms of office of the members of the public utilities commission of the former Town of Tecumseh and hydro-electric commission of the former Village of St. Clair Beach expire on December 31, 1998.

46. (1) On January 1, 1999, a public utilities commission is established for the new Town of Sandwich South-St. Clair Beach-Tecumseh bearing the name "The Hydro-Electric Commission for the Town of Sandwich South-St. Clair Beach-Tecumseh".

(2) The commission established under subsection (1) shall distribute and supply electrical power to the hydro service area of the public utilities commission of the former Town of Tecumseh and the hydro-electric commission of the former Village of St. Clair Beach.

(3) The commission established under subsection (1) shall be subject to the provisions of the *Public Utilities Act* and the *Power Corporation Act*.

(4) The commission established under subsection (1) shall consist of seven members, of whom the head of council shall be one by virtue of office and the six other members shall be the members of the council of the new Town of Sandwich South-St. Clair Beach-Tecumseh.

47. (1) On January 1, 1999, all by-laws and resolutions of the public utilities commission of the former Town of Tecumseh and the hydro-electric commission of the Village of St. Clair Beach that relate to the distribution and supply of electrical power shall be continued and deemed to be by-laws and resolutions of the commission established under subsection 46(1) and shall remain in force until the earlier of,

- (a) the date they are amended or repealed; or
- (b) December 31, 2003.

(2) On January 1, 1999, all by-laws and resolutions of the public utilities commission of the former Town of Tecumseh that relate to the production, treatment, distribution and supply of water shall be continued and deemed to be by-laws and resolutions of the new Town of Sandwich South-St. Clair Beach-Tecumseh and shall remain in force until the earlier of,

- (a) the date they are amended or repealed; or
- (b) December 31, 2003.

(3) Nothing in this section repeals or authorizes the repeal of by-laws or resolutions conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the commissions dissolved under subsection 45(1).

48. (1) All assets and liabilities, rights and obligations of the public utilities commission of the former Town of Tecumseh that relate to the distribution and supply of electrical power become assets and liabilities, rights and obligations of the commission established under subsection 46(1).

(2) All assets and liabilities, rights and obligations of the hydro-electric commission of the former Village of St. Clair Beach that relate to the production, treatment, distribution and supply of water become assets and liabilities, rights and obligations of the new Town of Sandwich South-St. Clair Beach-Tecumseh.

## **POLICE VILLAGE**

49. (1) The Police Village of Comber is dissolved on January 1, 1999.

(2) The terms of office of the trustees of the Police Village of Comber shall expire on December 31, 1998.

(3) On January 1, 1999, all by-laws or resolutions of the former Police Village of Comber that relate to the distribution and supply of electrical power become by-laws or resolutions of the hydro-electric commission for the Town of Lakeshore-Rochester-Tilbury North-Tilbury West.

(4) Subject to subsection (3), on January 1, 1999, all by-laws or resolutions of the former Police Village of Comber become by-laws or resolutions of the Town of Lakeshore-Rochester-Tilbury North-Tilbury West and its local boards.

(5) On January 1, 1999, all assets and liabilities, rights and obligations of the former Police Village of Comber that relate to the distribution and supply of electrical power become assets and liabilities, rights and obligations of the hydro-electric commission for the Town of Lakeshore-Rochester-Tilbury North-Tilbury West.

(6) Subject to subsection (5), on January 1, 1999, all assets and liabilities, rights and obligations of the former Police Village of Comber become assets and liabilities, rights and obligations of the Town of Lakeshore-Rochester-Tilbury North-Tilbury West and its local boards.

## **LOCAL BOARDS**

50. The terms of office of the members of any local boards of the former municipalities are extended until December 31, 1998.

51. The council for the new municipalities shall be deemed to be boards of park management under the *Public Parks Act* and recreation committees under the *Ministry of Tourism and Recreation Act* and committees of management of a community recreation centre under the *Community Recreation Centres Act* and all such committees and boards of the former municipalities are dissolved on January 1, 1999.

## **BY-LAWS AND RESOLUTIONS**

52. (1) On January 1, 1999, every by-law or resolution of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South and their local boards shall be deemed to be a by-law or resolution of the new Town of Colchester-Essex-Harrow and its local boards and shall remain in force in the area of the former municipality until the earlier of,

- (a) the date it is amended or repealed; or
- (b) December 31, 2003.

(2) Despite subsection (1), any by-law passed under section 34 of the *Planning Act* or a predecessor of that section and any official plan of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South approved under the *Planning Act*, or a predecessor of that Act, shall be deemed to be a by-law or official plan of the new Town of Colchester-Essex-Harrow and shall remain in force until amended or repealed.

(3) Despite subsection (1), any by-law passed under section 220 of the *Municipal Act*, or a predecessor of that section, of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South to establish a business improvement area shall be deemed to be a by-law of the new Town of Colchester-Essex-Harrow and shall remain in force until amended or repealed.

(4) If the former Town of Essex, the former Town of Harrow, the former Township of Colchester North or the former Township of Colchester South has commenced procedures to enact a by-law under any Act or adopt an official plan or amendment to it under the *Planning Act*, and the by-law, official plan or amendment to it is not in force on January 1, 1999, the new Town of Colchester-Essex-Harrow may continue the procedures.



(5) Despite subsection (1), a by-law of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North or the former Township of Colchester South passed under section 3 of the *Development Charges Act* pertaining to an area in a local municipality shall be deemed to be a by-law of the new Town of Colchester-Essex-Harrow and shall, despite sections 6 and 49 of that Act, remain in force until the earlier of,

- (a) the date it is repealed; or
- (b) the date it expires by virtue of the *Development Charges Act*.

(6) Nothing in this section repeals or authorizes the amendment or repeal of,

- (a) by-laws or resolutions of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North or the former Township of Colchester South passed under section 45, 58 and 61 of the *Drainage Act* or a predecessor of those sections;
- (b) by-laws that were passed under the *Highway Traffic Act* or the *Municipal Act* that regulate the use of highways by vehicles and pedestrians and that regulate the encroachment or projection of buildings or any portion thereof upon or over highways; or
- (c) by-laws conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the councils of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North or the former Township of Colchester South.

53. (1) On January 1, 1999, every by-law or resolution of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South and their local boards shall be deemed to be a by-law or resolution of the new Town of Kingsville/Gosfield and its local boards and shall remain in force in the area of the former municipality until the earlier of,

- (a) the date it is amended or repealed; or
- (b) December 31, 2003.

(2) Despite subsection (1), any by-law passed under section 34 of the *Planning Act* or a predecessor of that section and any official plan of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South approved under the *Planning Act*, or a predecessor of that Act, shall be deemed to be a by-law or official plan of the new Town of Kingsville/Gosfield and shall remain in force until amended or repealed.

(3) Despite subsection (1), any by-law passed under section 220 of the *Municipal Act*, or a predecessor of that section, of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South to establish a business improvement area shall be deemed to be a by-law of the new Town of Kingsville/Gosfield and shall remain in force until amended or repealed.

(4) If the former Town of Kingsville, the former Township of Gosfield North or the former Township of Gosfield South has commenced procedures to enact a by-law under any Act or adopt an official plan or amendment to it under the *Planning Act*, and the by-law, official plan or amendment to it is not in force on January 1, 1999, the new Town of Kingsville/Gosfield may continue the procedures.

(5) Despite subsection (1), a by-law of the former Town of Kingsville, the former Township of Gosfield North or the former Township of Gosfield South passed under section 3 of the *Development Charges Act* pertaining to an area in a local municipality shall be deemed to be a by-law of the new Town of Kingsville/Gosfield and shall, despite sections 6 and 49 of that Act, remain in force until the earlier of,

- (a) the date it is repealed; or
- (b) the date it expires by virtue of the *Development Charges Act*.

(6) Nothing in this section repeals or authorizes the amendment or repeal of,

- (a) by-laws or resolutions of the former Town of Kingsville, the former Township of Gosfield North or the former Township of Gosfield South passed under section 45, 58 and 61 of the *Drainage Act* or a predecessor of those sections;
- (b) by-laws that were passed under the *Highway Traffic Act* or the *Municipal Act* that regulate the use of highways by vehicles and pedestrians and that regulate the encroachment or projection of buildings or any portion thereof upon or over highways; or
- (c) by-laws conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the councils of the former Town of Kingsville, the former Township of Gosfield North or the former Township of Gosfield South.

54. (1) On January 1, 1999, every by-law or resolution of the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West and their local boards shall be deemed to be a by-law or resolution of the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West and its local boards and shall remain in force in the area of the former municipality until the earlier of,

- (a) the date it is amended or repealed; or
- (b) December 31, 2003.

(2) Despite subsection (1), any by-law passed under section 34 of the *Planning Act* or a predecessor of that section and any official plan of the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West approved under the *Planning Act*, or a predecessor of that Act, shall be deemed to be a by-law or official plan of the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West and shall remain in force until amended or repealed.

(3) Despite subsection (1), any by-law passed under section 220 of the *Municipal Act*, or a predecessor of that section, of the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West to establish a business improvement area shall be deemed to be a by-law of the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West and shall remain in force until amended or repealed.

(4) If the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North or the former Township of Tilbury West has commenced procedures to enact a by-law under any Act or adopt an official plan or amendment to it under the *Planning Act*, and the by-law, official plan or amendment to it is not in force on January 1, 1999, the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West may continue the procedures.

(5) Despite subsection (1), a by-law of the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North or the former Township of Tilbury West passed under section 3 of the *Development Charges Act* pertaining to an area in a local municipality shall be deemed to be a by-law of the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West and shall, despite sections 6 and 49 of that Act, remain in force until the earlier of,

- (a) the date it is repealed; or
- (b) the date it expires by virtue of the *Development Charges Act*.

(6) Nothing in this section repeals or authorizes the amendment or repeal of,

- (a) by-laws or resolutions of the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North or the former Township of Tilbury West passed under section 45, 58 and 61 of the *Drainage Act* or a predecessor of those sections;
- (b) by-laws that were passed under the *Highway Traffic Act* or the *Municipal Act* that regulate the use of highways by vehicles and pedestrians and that regulate the encroachment or projection of buildings or any portion thereof upon or over highways; or
- (c) by-laws conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the councils of the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North or the former Township of Tilbury West.

55. (1) On January 1, 1999, every by-law or resolution of the former Town of Leamington and the former Township of Mersea and their local boards shall be deemed to be a by-law or resolution of the new Town of Leamington and its local boards and shall remain in force in the area of the former municipality until the earlier of,

- (a) the date it is amended or repealed; or
- (b) December 31, 2003.

(2) Despite subsection (1), any by-law passed under section 34 of the *Planning Act* or a predecessor of that section and any official plan of the former Town of Leamington and the former Township of Mersea approved under the *Planning Act*, or a predecessor of that Act, shall be deemed to be a by-law or official plan of the new Town of Leamington and shall remain in force until amended or repealed.

(3) Despite subsection (1), any by-law passed under section 220 of the *Municipal Act*, or a predecessor of that section, of the former Town of Leamington and the former Township of Mersea to establish a business improvement area shall be deemed to be a by-law of the new Town of Leamington and shall remain in force until amended or repealed.

(4) If the former Town of Leamington or the former Township of Mersea has commenced procedures to enact a by-law under any Act or adopt an official plan or amendment to it under the *Planning Act*, and the by-law, official plan or amendment to it is not in force on January 1, 1999, the new Town of Leamington may continue the procedures.

(5) Despite subsection (1), a by-law of the former Town of Leamington or the former Township of Mersea passed under section 3 of the *Development Charges Act* pertaining to an area in a local municipality shall be deemed to be a by-law of the new Town of Leamington and shall, despite sections 6 and 49 of that Act, remain in force until the earlier of,

- (a) the date it is repealed; or
- (b) the date it expires by virtue of the *Development Charges Act*.

(6) Nothing in this section repeals or authorizes the amendment or repeal of,

- (a) by-laws or resolutions of the former Town of Leamington or the former Township of Mersea passed under section 45, 58 and 61 of the *Drainage Act* or a predecessor of those sections;
- (b) by-laws that were passed under the *Highway Traffic Act* or the *Municipal Act* that regulate the use of

highways by vehicles and pedestrians and that regulate the encroachment or projection of buildings or any portion thereof upon or over highways; or

- (c) by-laws conferring rights, privileges, franchises, immunities or exemptions that could not have been lawfully repealed by the councils of the former Town of Leamington or the former Township of Mersea.

56. (1) On January 1, 1999, every by-law or resolution of the former Town of Tecumseh, the former Village of St. Clair Beach and the former Township of Sandwich South and their local boards shall be deemed to be a by-law or resolution of the new Town of Sandwich South-Tecumseh-St. Clair Beach and its local boards and shall remain in force in the area of the former municipality until the earlier of,

- (a) the date it is amended or repealed; or
- (b) December 31, 2003.

(2) Despite subsection (1), any by-law passed under section 34 of the *Planning Act* or a predecessor of that section and any official plan of the former Town of Tecumseh, the former Village of St. Clair Beach and the former Township of Sandwich South approved under the *Planning Act*, or a predecessor of that Act, shall be deemed to be a by-law or official plan of the new Town of Sandwich South-Tecumseh-St. Clair Beach and shall remain in force until amended or repealed.

(3) Despite subsection (1), any by-law passed under section 220 of the *Municipal Act*, or a predecessor of that section, of the former Town of Tecumseh, the former Village of St. Clair Beach and the former Township of Sandwich South to establish a business improvement area shall be deemed to be a by-law of the new Town of Sandwich South-Tecumseh-St. Clair Beach and shall remain in force until amended or repealed.

(4) If the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South has commenced procedures to enact a by-law under any Act or adopt an official plan or amendment to it under the *Planning Act*, and the by-law, official plan or amendment to it is not in force on January 1, 1999, the new Town of Sandwich South-Tecumseh-St. Clair Beach may continue the procedures.

(5) Despite subsection (1), a by-law of the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South passed under section 3 of the *Development Charges Act* pertaining to an area in a local municipality shall be deemed to be a by-law of the new Town of Sandwich South-Tecumseh-St. Clair Beach and shall, despite sections 6 and 49 of that Act, remain in force until the earlier of,

- (a) the date it is repealed; or
- (b) the date it expires by virtue of the *Development Charges Act*.

(6) Nothing in this section repeals or authorizes the amendment or repeal of,

- (a) by-laws or resolutions of the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South passed under section 45, 58 and 61 of the *Drainage Act* or a predecessor of those sections;
- (b) by-laws that were passed under the *Highway Traffic Act* or the *Municipal Act* that regulate the use of highways by vehicles and pedestrians and that regulate the encroachment or projection of buildings or any portion thereof upon or over highways; or
- (c) by-laws conferring rights, privileges, franchises, immunities or exemptions that could not have been



lawfully repealed by the councils of the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South.

#### ASSETS AND LIABILITIES, RIGHTS AND OBLIGATIONS

57. On January 1, 1999, all assets and liabilities, rights and obligations of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South and their local boards become the assets and liabilities, rights and obligations of the new Town of Colchester-Essex-Harrow and its local boards.

58. On January 1, 1999, all assets and liabilities, rights and obligations of the former Town of Kingsville, the former Township of Gosfield North or the former Township of Gosfield South and their local boards become the assets and liabilities, rights and obligations of the new Town of Kingsville/Gosfield and its local boards.

59. On January 1, 1999, all assets and liabilities, rights and obligations of the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West and their local boards become the assets and liabilities, rights and obligations of the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West and its local boards.

60. On January 1, 1999, all assets and liabilities, rights and obligations of the former Town of Leamington and the former Township of Mersea and their local boards become the assets and liabilities, rights and obligations of the new Town of Leamington and its local boards.

61. On January 1, 1999, all assets and liabilities, rights and obligations of the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South and their local boards become the assets and liabilities, rights and obligations of the new Town of Sandwich South-Tecumseh-St. Clair Beach and its local boards.

#### EMPLOYEES

62. (1) On January 1, 1999, employees of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South or their local boards as of December 31, 1998, shall become employees of the new Town of Colchester-Essex-Harrow or its local boards.

(2) Employees that held non-bargaining unit positions with the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South or their local boards and will be employed by the new Town of Colchester-Essex-Harrow or its local boards, in a non-bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

(3) Employees that held non-bargaining unit positions with the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South or their local boards and will be employed by the new Town of Colchester-Essex-Harrow or its local boards, in a bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

63. (1) On January 1, 1999, employees of the former Town of Kingsville, the former Township of Gosfield North or the former Township of Gosfield South or their local boards as of December 31, 1998, shall become employees of the new Town of Kingsville/Gosfield or its local boards.

(2) Employees that held non-bargaining unit positions with the former Town of Kingsville, the former Township of Gosfield North or the former Township of Gosfield South or their local boards and will be employed by the new Town of Kingsville/Gosfield or its local boards, in a non-bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

(3) Employees that held non-bargaining unit positions with the former Town of Kingsville, the former Township of Gosfield North or the former Township of Gosfield South or their local boards and will be employed by the new Town of Kingsville/Gosfield or its local boards, in a bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

64. (1) On January 1, 1999, employees of the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West or their local boards as of December 31, 1998, shall become employees of the new Town of or its local boards.

(2) Employees that held non-bargaining unit positions with the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West or their local boards and will be employed by the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West or its local boards, in a non-bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

(3) Employees that held non-bargaining unit positions with the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West or their local boards and will be employed by the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West or its local boards, in a bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

65. (1) On January 1, 1999, employees of the former Town of Leamington and the former Township of Mersea or their local boards as of December 31, 1998, shall become employees of the new Town of Leamington or its local boards.

(2) Employees that held non-bargaining unit positions with the former Town of Leamington and the former Township of Mersea or their local boards and will be employed by the new Town of Leamington or its local boards, in a non-bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

(3) Employees that held non-bargaining unit positions with the former Town of Leamington and the former Township of Mersea or their local boards and will be employed by the new Town of Leamington or its local boards, in a bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

66. (1) On January 1, 1999, employees of the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South or their local boards as of December 31, 1998, shall become employees of the new Town of Sandwich South-Tecumseh-St. Clair Beach or its local boards.

(2) Employees that held non-bargaining unit positions with the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South or their local boards and will be employed by the new Town of Town of Sandwich South-Tecumseh-St. Clair Beach or its local boards, in a non-bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

(3) Employees that held non-bargaining unit positions with the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South or their local boards and will be employed by the new Town of Town of Sandwich South-Tecumseh-St. Clair Beach or its local boards, in a bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

#### TAXES, CHARGES, RATES

67. (1) All taxes, charges and rates levied under any general or special Act and uncollected in the former Town of Essex, the



former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South or their local boards which are due and unpaid on December 31, 1998, shall be deemed to be taxes, charges and rates due and payable to the new Town of Colchester-Essex-Harrow and may be collected by the new Town or its local boards.

(2) If a former municipality listed under subsection (1) has commenced procedures under the *Municipal Tax Sales Act* and the procedures are not completed by January 1, 1999, the new Town of Colchester-Essex-Harrow may continue the procedures.

68. (1) All taxes, charges and rates levied under any general or special Act and uncollected in the former Town of Kingsville, the former Township of Gosfield North or the former Township of Gosfield South their local boards which are due and unpaid on December 31, 1998, shall be deemed to be taxes, charges and rates due and payable to the new Town of Kingsville/Gosfield and may be collected by the new Town or its local boards.

(2) If a former municipality listed under subsection (1) has commenced procedures under the *Municipal Tax Sales Act* and the procedures are not completed by January 1, 1999, the new Town of Kingsville/Gosfield may continue the procedures.

69. (1) All taxes, charges and rates levied under any general or special Act and uncollected in the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West or their local boards which are due and unpaid on December 31, 1998, shall be deemed to be taxes, charges and rates due and payable to the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West and may be collected by the new Town or its local boards.

(2) If a former municipality listed under subsection (1) has commenced procedures under the *Municipal Tax Sales Act* and the procedures are not completed by January 1, 1999, the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West may continue the procedures.

70. (1) All taxes, charges and rates levied under any general or special Act and uncollected in the former Town of Leamington and the former Township of Mersea or their local boards which are due and unpaid on December 31, 1998, shall be deemed to be taxes, charges and rates due and payable to the new Town of Leamington and may be collected by the new Town or its local boards.

(2) If a former municipality listed under subsection (1) has commenced procedures under the *Municipal Tax Sales Act* and the procedures are not completed by January 1, 1999, the new Town of Leamington may continue the procedures.

71. (1) All taxes, charges and rates levied under any general or special Act and uncollected in the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South or their local boards which are due and unpaid on December 31, 1998, shall be deemed to be taxes, charges and rates due and payable to the new Town of Sandwich South-Tecumseh-St. Clair Beach and may be collected by the new Town or its local boards.

(2) If a former municipality listed under subsection (1) has commenced procedures under the *Municipal Tax Sales Act* and the procedures are not completed by January 1, 1999, the new Town of Sandwich South-Tecumseh-St. Clair Beach may continue the procedures.

#### TAX PHASE-IN

72. (1) Any increase in the rates of taxation for municipal purposes for the new Town of Colchester-Essex-Harrow that would occur solely as a result of this Order shall be phased in for the municipal portion of the real property tax bill over a period of five years.

(2) Where there is a phase-in for any increase in the rates of taxation for municipal purposes for the new municipality as referred to in subsection (1), such increase shall be financed by a reduction in the decrease in the rates of taxation over an equivalent period that would occur solely as a result of this Order.

73. (1) Any increase in the rates of taxation for municipal purposes for the new Town of Kingsville/Gosfield that would occur solely as a result of this Order shall be phased in for the municipal portion of the real property tax bill over a period of five years.

(2) Where there is a phase-in for any increase in the rates of taxation for municipal purposes for the new municipality as referred to in subsection (1), such increase shall be financed by a reduction in the decrease in the rates of taxation over an equivalent period that would occur solely as a result of this Order.

74. (1) Any increase in the rates of taxation for municipal purposes for the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West that would occur solely as a result of this Order shall be phased in for the municipal portion of the real property tax bill over a period of five years.

(2) Where there is a phase-in for any increase in the rates of taxation for municipal purposes for the new municipality as referred to in subsection (1), such increase shall be financed by a reduction in the decrease in the rates of taxation over an equivalent period that would occur solely as a result of this Order.

75. (1) Any increase in the rates of taxation for municipal purposes for the new Town of Leamington that would occur solely as a result of this Order shall be phased in for the municipal portion of the real property tax bill over a period of five years.

(2) Where there is a phase-in for any increase in the rates of taxation for municipal purposes for the new municipality as referred to in subsection (1), such increase shall be financed by a reduction in the decrease in the rates of taxation over an equivalent period that would occur solely as a result of this Order.

76. (1) Any increase in the rates of taxation for municipal purposes for the new Town of Sandwich South-Tecumseh-St. Clair Beach that would occur solely as a result of this Order shall be phased in for the municipal portion of the real property tax bill over a period of five years.

(2) Where there is a phase-in for any increase in the rates of taxation for municipal purposes for the new municipality as referred to in subsection (1), such increase shall be financed by a reduction in the decrease in the rates of taxation over an equivalent period that would occur solely as a result of this Order.

#### RESERVES AND RESERVE FUNDS

77. (1) Reserves and reserve funds of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South shall become reserves and reserve funds of the new Town of Colchester-Essex-Harrow and shall be used on or before December 31, 2003, for the purpose for which they were designated by the former municipalities for the benefit of the ratepayers of the area of the former municipalities.

(2) The balance of the working fund reserve as shown on the 1998 audited financial statements of each of the municipalities of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South shall be increased or decreased, as the case may be, by the amount of the surplus or deficit reported in the audited financial statements of the former municipality as at December 31, 1998. The surplus or deficit that is to be used for this purpose is defined as the amount that would have, were it not for the requirements of this subsection, been applied against the general reduction or increase of taxation.

(3) The balance of the working fund reserve as determined under subsection (2) of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South shall form part of or all of the working fund reserve established by the new Town of Colchester-Essex-Harrow under subsection (4).

(4) On January 1, 1999, the new Town of Colchester-Essex-Harrow shall establish a working fund reserve. The contributions of each of the municipalities of the former Town of Essex, the former

Town of Harrow, the former Township of Colchester North and the former Township of Colchester South shall be calculated by applying the percentage that their equalized assessment bears to the total equalized assessment of the former municipalities, as delivered for the 1998 taxation year.

(5) Where the amount by which the working fund reserve as determined under subsection (2) for each of the municipalities of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South exceeds its share of the amount to be funded under subsection (4), the new Town of Colchester-Essex-Harrow shall provide for a mill rate adjustment upon the rateable property located in the area of the former municipality to be used for benefit of the ratepayers of the former municipalities.

(6) Where the amount by which the working fund reserve as determined under subsection (2) for each of the municipalities of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South is not sufficient to achieve its share of the amount to be funded under subsection (4), the new Town of Colchester-Essex-Harrow shall provide for a mill rate adjustment upon the rateable property located in the area of the former municipality as a charge against the ratepayers of the former municipalities.

78. (1) Reserves and reserve funds of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South shall become reserves and reserve funds of the new Town of Kingsville/Gosfield and shall be used on or before December 31, 2003, for the purpose for which they were designated by the former municipalities for the benefit of the ratepayers of the area of the former municipalities.

(2) The balance of the working fund reserve as shown on the 1998 audited financial statements of each of the municipalities of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South shall be increased or decreased, as the case may be, by the amount of the surplus or deficit reported in the audited financial statements of the former municipality as at December 31, 1998. The surplus or deficit that is to be used for this purpose is defined as the amount that would have, were it not for the requirements of this subsection, been applied against the general reduction or increase of taxation.

(3) The balance of the working fund reserve as determined under subsection (2) of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South shall form part of or all of the working fund reserve established by the new Town of Kingsville/Gosfield under subsection (4).

(4) On January 1, 1999, the new Town of Kingsville/Gosfield shall establish a working fund reserve. The contributions of each of the municipalities of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South shall be calculated by applying the percentage that their equalized assessment bears to the total equalized assessment of the former municipalities, as delivered for the 1998 taxation year.

(5) Where the amount by which the working fund reserve as determined under subsection (2) for each of the municipalities of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South exceeds its share of the amount to be funded under subsection (4), the new Town of Kingsville/Gosfield shall provide for a mill rate adjustment upon the rateable property located in the area of the former municipality to be used for benefit of the ratepayers of the former municipalities.

(6) Where the amount by which the working fund reserve as determined under subsection (2) for each of the municipalities of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South is not sufficient to achieve its share of the amount to be funded under subsection (4), the new Town of Kingsville/Gosfield shall provide for a mill rate adjustment upon the rateable property located in the area of the former municipality as a charge against the ratepayers of the former municipalities.

79. (1) Reserves and reserve funds of the former Lakeshore Township, the Township of Rochester, the former Township of Tilbury North, the former Township of Tilbury West and the Police Village of Comber shall become reserves and reserve funds of the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West and shall be used on or before December 31, 2003, for the purpose for which they were designated by the former municipalities for the benefit of the ratepayers of the area of the former municipalities.

(2) The balance of the working fund reserve as shown on the 1998 audited financial statements of each of the municipalities of the former Lakeshore Township, the Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West shall be increased or decreased, as the case may be, by the amount of the surplus or deficit reported in the audited financial statements of the former municipality as at December 31, 1998. The surplus or deficit that is to be used for this purpose is defined as the amount that would have, were it not for the requirements of this subsection, been applied against the general reduction or increase of taxation.

(3) The balance of the working fund reserve as determined under subsection (2) of the former Lakeshore Township, the Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West shall form part of or all of the working fund reserve established by the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West under subsection (4).

(4) On January 1, 1999, the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West shall establish a working fund reserve. The contributions of each of the municipalities of the former Lakeshore Township, the Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West shall be calculated by applying the percentage that their equalized assessment bears to the total equalized assessment of the former municipalities, as delivered for the 1998 taxation year.

(5) Where the amount by which the working fund reserve as determined under subsection (2) for each of the municipalities of the former Lakeshore Township, the Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West exceeds its share of the amount to be funded under subsection (4), the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West shall provide for a mill rate adjustment upon the rateable property located in the area of the former municipality to be used for benefit of the ratepayers of the former municipalities.

(6) Where the amount by which the working fund reserve as determined under subsection (2) for each of the municipalities of the former Lakeshore Township, the Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West is not sufficient to achieve its share of the amount to be funded under subsection (4), the new Town of Lakeshore-Rochester-Tilbury North-Tilbury West shall provide for a mill rate adjustment upon the rateable property located in the area of the former municipality as a charge against the ratepayers of the former municipalities.

80. (1) Reserves and reserve funds of the former Town of Leamington and the former Township of Mersea shall become reserves and reserve funds of the new Town of Leamington and shall be used on or before December 31, 2003, for the purpose for which they were designated by the former municipalities for the benefit of the ratepayers of the area of the former municipalities.

(2) The balance of the working fund reserve as shown on the 1998 audited financial statements of each of the municipalities of the former Town of Leamington and the former Township of Mersea shall be increased or decreased, as the case may be, by the amount of the surplus or deficit reported in the audited financial statements of the former municipality as at December 31, 1998. The surplus or deficit that is to be used for this purpose is defined as the amount that would have, were it not for the requirements of this subsection, been applied against the general reduction or increase of taxation.

(3) The balance of the working fund reserve as determined under subsection (2) of the former Town of Leamington and the former Township of Mersea shall form part of or all of the working



fund reserve established by the new Town of Leamington under subsection (4).

(4) On January 1, 1999, the new Town of Leamington shall establish a working fund reserve. The contributions of each of the municipalities of the former Town of Leamington and the former Township of Mersea shall be calculated by applying the percentage that their equalized assessment bears to the total equalized assessment of the former municipalities, as delivered for the 1998 taxation year.

(5) Where the amount by which the working fund reserve as determined under subsection (2) for each of the municipalities of the former Town of Leamington and the former Township of Mersea exceeds its share of the amount to be funded under subsection (4), the new Town of Leamington shall provide for a mill rate adjustment upon the rateable property located in the area of the former municipality to be used for benefit of the ratepayers of the former municipalities.

(6) Where the amount by which the working fund reserve as determined under subsection (2) for each of the municipalities of the former Town of Leamington and the former Township of Mersea is not sufficient to achieve its share of the amount to be funded under subsection (4), the new Town of Leamington shall provide for a mill rate adjustment upon the rateable property located in the area of the former municipality as a charge against the ratepayers of the former municipalities.

**81.** (1) Reserves and reserve funds of the former Town of Tecumseh, the former Village of St. Clair Beach and the former Township of Sandwich South shall be come reserves and reserve funds of the new Town of Sandwich South-Tecumseh-St. Clair Beach and shall be used on or before December 31, 2003, for the purpose for which they were designated by the former municipalities for the benefit of the ratepayers of the area of the former municipalities.

(2) The balance of the working fund reserve as shown on the 1998 audited financial statements of each of the municipalities of the former Town of Tecumseh, the former Village of St. Clair Beach and the former Township of Sandwich South shall be increased or decreased, as the case may be, by the amount of the surplus or deficit reported in the audited financial statements of the former municipality as at December 31, 1998. The surplus or deficit that is to be used for this purpose is defined as the amount that would have, were it not for the requirements of this subsection, been applied against the general reduction or increase of taxation.

(3) The balance of the working fund reserve as determined under subsection (2) of the former Town of Tecumseh, the former Village of St. Clair Beach and the former Township of Sandwich South shall form part of or all of the working fund reserve established by the new Town of Sandwich South-Tecumseh-St. Clair Beach under subsection (4).

(4) On January 1, 1999, the new Town of Sandwich South-Tecumseh-St. Clair Beach shall establish a working fund reserve. The contributions of each of the municipalities of the former Town of Tecumseh, the former Village of St. Clair Beach and the former Township of Sandwich South shall be calculated by applying the percentage that their equalized assessment bears to the total equalized assessment of the former municipalities, as delivered for the 1998 taxation year.

(5) Where the amount by which the working fund reserve as determined under subsection (2) for each of the municipalities of the former Town of Tecumseh, the former Village of St. Clair Beach and the former Township of Sandwich South exceeds its share of the amount to be funded under subsection (4), the new Town of Sandwich South-Tecumseh-St. Clair Beach shall provide for a mill rate adjustment upon the rateable property located in the area of the former municipality to be used for benefit of the ratepayers of the former municipalities.

(6) Where the amount by which the working fund reserve as determined under subsection (2) for each of the municipalities of the former Town of Tecumseh, the former Village of St. Clair Beach and the former Township of Sandwich South is not sufficient to achieve its share of the amount to be funded under subsection (4), the new Town

of Sandwich South-Tecumseh-St. Clair Beach shall provide for a mill rate adjustment upon the rateable property located in the area of the former municipality as a charge against the ratepayers of the former municipalities.

## TRANSITION BOARDS

**82.** (1) On January 1, 1998, a transition board shall be established for the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South.

(2) The board established under subsection (1) is constituted as body corporate and ceases to exist on January 1, 1999.

(3) The board established under subsection (1) shall be composed of the following eight members,

- (a) the heads of council of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South; and
- (b) one member appointed by each of the councils of the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South who shall be qualified electors under the *Municipal Elections Act, 1996*.

**83.** (1) On January 1, 1998, a transition board shall be established for the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South.

(2) The board established under subsection (1) is constituted as body corporate and ceases to exist on January 1, 1999.

(3) The board established under subsection (1) shall be composed of the following six members,

- (a) the heads of council of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South; and
- (b) one member appointed by each of the councils of the former Town of Kingsville, the former Township of Gosfield North and the former Township of Gosfield South who shall be qualified electors under the *Municipal Elections Act, 1996*.

**84.** (1) On January 1, 1998, a transition board shall be established for the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West.

(2) The board established under subsection (1) is constituted as body corporate and ceases to exist on January 1, 1999.

(3) The board established under subsection (1) shall be composed of the following ten members,

- (a) the heads of council of the former Lakeshore Township, the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West;
- (b) the deputy head of council of the former Lakeshore Township;
- (c) one member appointed by each of the councils of the former Township of Rochester, the former Township of Tilbury North and the former Township of Tilbury West who shall be qualified electors under the *Municipal Elections Act, 1996*; and
- (d) two members appointed by the council of the former Lakeshore Township who shall be qualified electors under the *Municipal Elections Act, 1996*.



85. (1) On January 1, 1998, a transition board shall be established for the former Town of Leamington and the former Township of Mersea.

(2) The board established under subsection (1) is constituted as body corporate and ceases to exist on January 1, 1999.

(3) The board established under subsection (1) shall be composed of the following four members,

- (a) the heads of council of the former Town of Leamington and the former Township of Mersea; and
- (b) one member appointed by each of the councils of the former Town of Leamington and the former Township of Mersea who shall be qualified electors under the *Municipal Elections Act, 1996*.

86. (1) On January 1, 1998, a transition board shall be established for the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South.

(2) The board established under subsection (1) is constituted as body corporate and ceases to exist on January 1, 1999.

(3) The board established under subsection (1) shall be composed of the following six members,

- (a) the heads of council of the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South; and
- (b) one member appointed by each of the councils of the former Town of Tecumseh, the former Village of St. Clair Beach or the former Township of Sandwich South who shall be qualified electors under the *Municipal Elections Act, 1996*.

87. (1) As soon as practicable, the boards established under subsections 82(1), 83(1), 84(1), 85(1) and 86(1) shall adopt procedural rules and systems of control to govern their activities.

(2) The boards established under subsections 82(1), 83(1), 84(1), 85(1) and 86(1) are subject to the provisions governing the conduct of meetings under section 55 of the *Municipal Act*.

88. (1) The boards established under subsections 82(1), 83(1), 84(1), 85(1) and 86(1) may exercise the powers specified in subsection (4).

(2) The councils of the former municipalities shall not exercise the powers specified in clauses 4(k), (m) and (n) without the approval of the transition board established for those former municipalities.

(3) The boards established under subsections 82(1), 83(1), 84(1), 85(1) and 86(1) may exercise the powers specified in this section that the councils of the new Towns will have after January 1, 1999.

(4) The boards established under subsections 82(1), 83(1), 84(1), 85(1) and 86(1) for the former municipalities may exercise the following powers,

- (a) establish and adopt transition plans for 1998, including the establishment of the board's budget and the apportionment of the board's costs associated with the exercise of powers listed in this section to each of the former municipalities in accordance with each's proportionate share of the 1997 assessment for the former municipalities;
- (b) second employees and advisors from the former municipalities and their local boards for the purposes of the board;
- (c) require the production of financial and other data, information and statistics from each of the former municipalities and their local boards;

(d) establish operational and capital budgets, including operating reserves and working capital reserves, outstanding debt or obligations, organizational structures, administrative and management systems, staff positions and job descriptions for the new municipality in order to ensure a fully operational municipal organization which shall, on January 1, 1999, become the new municipality and its administration;

(e) prepare a report for the consideration of the council of the new Town regarding the integration of all local boards, including but not limited to the public utilities commissions and the police service boards, either as independent boards or merged with the new municipality, as the case may be, in order to ensure fully operational bodies which shall become the new local boards or part of the new municipality;

(f) prepare a report for the consideration of the council of the new municipality regarding the functions, location, size, facilities, staff complement and equipment needed for the primary and/or satellite municipal office(s) necessary for the efficient and effective administration of the new municipality;

(g) establish electronic or manual information systems, records and books of accounts for the new municipality and its local boards;

(h) establish a human resources transition protocol which provides for uniform policies and mechanisms relating to,

(i) the procedures and placement of employees of the former municipalities or their local boards in positions with the new municipality or its local boards, and

(ii) the termination of employment for employees of the former municipalities and their local boards, including monetary entitlements or other benefits for displaced employees;

(i) offer employees of the former municipalities and their local boards employment with the new municipality and determine the terms and conditions of that employment consistent with the new municipality's legal obligations;

(j) issue lay-off notices or provide for severance or compensation in lieu of notice, or both notice and compensation, as required, to employees of the former municipalities;

(k) negotiate with trade unions with respect to collective agreements and other matters and pursue applications to the Ontario Labour Relations Board or such other body required by law, on matters arising out of these negotiations;

(l) complete a report on the proposed disposition of assets and liabilities of the former municipalities and their local boards for the consideration of the council of the new municipality;

(m) review and approve all financial expenditures of the former municipalities in excess of \$10,000 that are not included in the approved municipal operating or capital budgets for 1998, including non-cash transactions such as the exchange of assets with external parties;

(n) review and approve expenditures of the former municipalities from reserve and reserve funds, financial commitments which extend beyond December 31, 1998, and the acceleration of any project originally scheduled to commence after December 31, 1998;

- (o) submit a request (resolution) to the Minister of Municipal Affairs and Housing to change the name of the new municipality;
- (p) prepare a report for the consideration of the council of the new municipality regarding the imposition of special mill rate adjustments or other charges; and
- (q) the board for the former Town of Essex, the former Town of Harrow, the former Township of Colchester North and the former Township of Colchester South established under subsection 82(1) shall administer the two agreements dated July 18, 1995, respectively, between the Essex-Windsor Solid Waste Management Authority, the County of Essex, the City of Windsor and,
  - (i) the former Township of Colchester North; and
  - (ii) the former Township of Colchester South.

**DISPUTE RESOLUTION**

89. Where a dispute arises with respect to any issue arising out of the interpretation of this Order, any one of the parties may,

- (a) refer the matter in dispute to arbitration in accordance with the provisions of the *Arbitration Act, 1991*; or
- (b) defer the matter to the council of the new municipality in the area to which the dispute pertains, subsequent to January 1, 1999, for resolution.

Dated at Toronto, this 18th Day of November, 1997

AL LEACH  
Minister of Municipal Affairs & Housing

(6104) 49

## Pesticides Act Loi sur les pesticides

### PROPOSAL TO SCHEDULE PESTICIDES

On the recommendation of the undersigned, I propose to add the one (1) product listed below to the specified Schedules of Regulation 914 under the *Pesticides Act*.

Recommended by the Pesticides Advisory Committee, July 8, 1997.

DR. C. SWITZER,  
Chair

Recommended by the Director under the *Pesticides Act*.

L. POFF,  
Director

Proposal dated at Toronto this 10th day of November, 1997.

NORMAN W. STERLING,  
Minister of Environment

Registration No.	Schedule	Registrant	Agent	Pesticide
25229	3	PLG		Dyno-Mite Miticide/Insecticide Wettable Powder

NOTE: This proposal is made under s. 21 of Regulation 914, R.R.O., 1990. Publication of this proposal in The Ontario Gazette grants certain exemptions specified in s. 21(4) of the Regulation. These exemptions remain in effect for 18 months from the date of publication unless, before then, the proposal is revoked or an affected pesticide is placed in one of the schedules to Regulation 914.

(6109) 49

## Applications to Provincial Parliament — Private Bills Demandes au Parlement provincial — Projets de loi d'intérêt privé

### PUBLIC NOTICE

The rules of procedure and the fees and costs related to applications for Private Bills are set out in the Standing Orders of the Legislative Assembly. Copies of the Standing Orders may be obtained from:

Committees Branch  
Room 1405, Whitney Block, Queen's Park  
Toronto, Ontario M7A 1A2

Telephone: 416/325-3500 (Collect calls will be accepted.)

Applicants should note that consideration of applications for Private Bills that are received after the first day of September in any calendar year may be postponed until the first regular Session in the next following calendar year.

CLAUDE L. DESROSIERES,  
Clerk of the Legislative Assembly.

(8699) T.F.N.

## Applications to Provincial Parliament Demandes au Parlement provincial

### CANADIAN AUTOMOTIVE MUSEUM INC.

NOTICE IS HEREBY GIVEN that on behalf of the Canadian Automotive Museum Inc. application will be made to the Legislative Assembly of the Province of Ontario for an Act to authorize the cancellation of taxes for municipal and school purposes in respect of the land and premises known municipally as 99 Simcoe Street South in the City of Oshawa.

The application will be considered by the Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee on Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Legislative Building, Queen's Park, Toronto, Ontario, M7A 1A2.

Dated at Oshawa, this 22nd day of November, 1997.

J.F. INNES,  
President of the Board of Directors,  
Canadian Automotive Museum Inc.

(9421) 47-50

## Corporation Notices Avis relatifs aux compagnies

### U B SAFE SUPPLIES LTD. Ontario Corporation Number 1127459

NOTICE IS HEREBY GIVEN that U B Safe Supplies Ltd. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Oakville, this 21st day of November, 1997.

(9465) 49  
JANICE DIXON,  
Director.

### 34 WEST AVENUE NORTH (HAMILTON) INCORPORATED

NOTICE IS HEREBY GIVEN that the number of directors of 34 West Avenue North (Hamilton) Incorporated was increased from 3 to 7 by a Special Resolution which was confirmed by the members of the Corporation on the 30th day of November, 1997.

Dated at Hamilton, this 15th day of November, 1997.

(9466) 49  
JOSEPH SILVIO MANCINELLI,  
Recording Secretary.

### 770091 ONTARIO LTD.

NOTICE IS HEREBY GIVEN that 770091 Ontario Ltd. intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 20th day of November, 1997.

(9469) 49  
BONDY, KUZAK, RIGGS & CERVI,  
Per: Michael Cervi

### INSURANCE BROKERS ASSOCIATION OF ONTARIO

NOTICE IS HEREBY GIVEN that the number of directors of Insurance Brokers Association of Ontario will be decreased from 19 to 18 by a Special Resolution effective the 21st day of October, 1998.

Dated this 7th day of November, 1997.

(9470) 49  
ROBERT CARTER,  
Secretary.

### 1265142 ONTARIO LIMITED

TAKE NOTICE that on the 21st day of November, 1997 the shareholder of 1265142 Ontario Limited passed a Resolution requiring the said Corporation to be wound up voluntarily under the provisions of the *Business Corporations Act (Ontario)* and appointing Jeffrey Stober as Liquidator.

(9471) 49  
FOGLER, RUBINOFF,  
Solicitors,  
Suite 4400, P.O. Box 95  
Royal Trust Tower  
Toronto-Dominion Centre  
Toronto, Ontario  
M5H 3T1.  
Per: I. William Berger.

### CAT-ACCT TRAINING AND EDUCATION CORPORATION

NOTICE IS HEREBY GIVEN that CAT-ACCT Training and Education Corporation intends to surrender its Charter pursuant to the *Corporations Act*.

Dated this 24th day of November, 1997.

(9472) 49  
DAVEY LEWIS,  
President.

### MUR-MY FARMS LTD.

NOTICE IS HEREBY GIVEN that Mur-My Farms Ltd. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Owen Sound, this 25th day of November, 1997.

(9473) 49  
MIDDLEBRO' & STEVENS,  
Barristers & Solicitors,  
Per: John H. E. Middlebro'

### MAYER FARMS INC.

TAKE NOTICE that the final meeting of Mayer Farms Inc. Limited (in voluntary liquidation) was held at Hanover, on the 17th day of November, 1997, at the hour of 10 o'clock in the forenoon, for the purpose of receiving and considering the account of the liquidator showing the manner in which the winding up has been conducted, and the property of the corporation disposed of, and hearing any explanation that may be given by the liquidator, and to consider a resolution directing the disposal of the books, accounts and documents of the corporation and of the liquidator, and transacting such other business as may properly come before the meeting or any adjournment thereof.

Dated at Hanover, this 17th day of November, 1997.

(9474) 49  
RALPH BAKKER,  
Liquidator.

### URLINDALE GRAVEL LIMITED

TAKE NOTICE concerning the winding-up of Urlindale Gravel Limited. Date of Incorporation: April 3, 1962. Liquidator: Diane Urlin, 519 York Street, London, Ontario N6B 1R4. Date Appointed: November 17, 1997.

This notice is filed under subsection 193 (4) of the *Business Corporations Act*. The Special Resolution requiring the Corporation to be wound up voluntarily was consented to by the shareholders on November 17, 1997.

Dated at London, this 17th day of November, 1997.

(9475) 49  
DIANE URLIN,  
President.



**BERTRAND AGREGATS INC.**

NOTICE IS HEREBY GIVEN that Bertrand Agregats Inc. intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 26th day of November, 1997.

J. R. MICHEL BERTRAND,  
Secretary.

(9476) 49

**BERTRAND ASPHALT INC.**

NOTICE IS HEREBY GIVEN that Bertrand Asphalt Inc. intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 26th day of November, 1997.

J. R. MICHEL BERTRAND,  
Secretary.

(9477) 49

**MISSISSAUGA REPS HOCKEY CLUB**

NOTICE IS HEREBY GIVEN that the number of directors of Mississauga Reps Hockey Club was decreased from 7 to 3 by a Special Resolution which was confirmed by the members of the Corporation on the 20th day of November, 1997.

Dated this 27th day of November, 1997.

VENISIA RIMMER,  
Secretary.

(9479) 49

**MISSISSAUGA REPS HOCKEY CLUB**

NOTICE IS HEREBY GIVEN that the location of the Head Office of Mississauga Reps Hockey Club was changed from PO Box 53004 Erin Mills, Mississauga, Ontario L5M 3A7 to 3672 Ketchum Court, Mississauga, Ontario L5L 4S8 by a Special Resolution which was confirmed by the members of the Corporation on the 20th day of November, 1997.

Dated this 27th day of November, 1997.

VENISIA RIMMER,  
Secretary.

(9480) 49

**JOTEM HOLDINGS LIMITED**

NOTICE IS HEREBY GIVEN that Jotem Holdings Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated at North York, this 14th day of November, 1997.

GERALDINE R. TEPPER,  
Secretary.

(9481) 49

**ALCADAR INC.**

NOTICE IS HEREBY GIVEN that Alcadar Inc. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Toronto, this 27th day of October, 1997.

MICHAEL DESROSIERS,  
Vice President.

(9482) 49

**HMR HOLDINGS INC.**

TAKE NOTICE that the Shareholders of the Corporation passed a Special Resolution on November 25, 1997 requiring the said Corporation to be wound up voluntarily under the provisions of the *Business Corporations Act*.

Dated this 26th day of November, 1997.

ERWIN REIDL,  
President.

(9483) 49

**HMR HOLDINGS INC.**

TAKE NOTICE that a final meeting of the Shareholders of the Corporation was held on November 26, 1997, at which time the Liquidator of the above Corporation presented his account and explanation of the voluntary winding up of the Corporation.

Dated this 26th day of November, 1997.

WALTER REIDL,  
Liquidator.

(9484) 49

## Partnership Dissolution/Changes Dissolution de sociétés/La modifications

**NORTHLAND POWER IROQUOIS FALLS PARTNERSHIP**

NOTICE IS HEREBY GIVEN that the partnership between Northland Power Inc. and Tractebel Canada Inc. carrying on business as Northland Power Iroquois Falls Partnership will be dissolved on December 9, 1997 or such later date as the partners may determine.

Dated at Toronto, this 27th day of November, 1997.

NORTHLAND POWER INC.,  
By Its Solicitors,  
BORDEN & ELLIOT,  
Scotia Plaza,  
40 King Street West,  
Suite 4200,  
Toronto, Ontario,  
M5H 3Y4.

(9485) 49

## Miscellaneous Notices Avis divers



Ontario  
Energy  
Board

Notice "C" E.B.A. 838

### NOTICE OF APPLICATION AND NOTICE OF WRITTEN HEARING FRANCHISE APPROVAL FOR THE CORPORATION OF THE CITY OF KANATA

An Application has been filed by The Consumers' Gas Company Ltd. with the Ontario Energy Board for approval of a municipal franchise agreement for the right to construct and operate works to supply gas, and the right to supply gas, to the City of Kanata pursuant to sections 9 and 10 of the *Municipal Franchises Act*. The Application is to replace an existing franchise agreement between Consumers' Gas Company Ltd. and the Corporation of the City of Kanata.

This Notice does not constitute service but is published as a matter of record only.

Dated at Toronto, this 18th day of November, 1997.

ONTARIO ENERGY BOARD

PAUL B. PUDGE,  
Board Secretary.

(9463) 49



Commission  
de l'Énergie  
de l'Ontario

Avis «C» E.B.A. 838

**AVIS DE PRÉSENTATION D'UNE DEMANDE  
ET AVIS D'AUDIENGE PAR ÉCRIT  
APPROBATION D'UNE CONCESSION  
POUR LA CORPORATION DE LA VILLE DE KANATA**

Une demande a été déposée par The Consumers' Gas Company Ltd. auprès de la Commission de l'énergie de l'Ontario en vue de l'approbation d'un contrat de concession municipale afin d'obtenir le droit de construire et d'exploiter des installations d'approvisionnement en gaz et d'approvisionner en gaz la Ville de Kanata en vertu des articles 9 et 10 de la *Loi sur les concessions municipales*. Cette demande vise à remplacer un contrat de concession en vigueur actuellement entre The Consumers' Gas Company Ltd. et la Corporation de la Ville de Kanata.

Le présent avis n'est publié qu'à titre de fait enregistré, et son contenu ne doit pas être considéré comme ayant été signifié.

FAIT à Toronto le 18 novembre 1997.

COMMISSION DE L'ÉNERGIE DE L'ONTARIO

(9464) 49

PAUL B. PUDGE,  
Secrétaire de la Commission.

**Sheriffs' Sales of Lands  
Ventes de terrains par le shérif**

UNDER AND BY VIRTUE OF an execution issued out of The Ontario Court (General Division) and to me directed, against the lands and tenements of JOHN PATRICK MORRIS, at the suit of the MINISTER OF NATIONAL REVENUE, I have seized and taken in execution all the right, title, interest and equity of JOHN PATRICK MORRIS in and to:

ALL AND SINGULAR a certain parcel or tract of land known as Part Block E, Plan 1170, in the City of Kitchener, in the Regional Municipality of Waterloo, designated as Part 1 on Plan 58R-6379, City of Kitchener, Regional Municipality of Waterloo, known municipally as 24 Midland Drive, Kitchener, Ontario.

The interest of JOHN PATRICK MORRIS therein is a proportionate interest of .05284 as tenants in common with all other owners of proportionate interests. The total of the proportionate interest is 1.00000.

On the premises is said to be erected a 73 unit apartment building.

JOHN PATRICK MORRIS is a signor of a tenancy in common agreement in relation to Units 207, 501, 601 and 602 at 24 Midland Drive, Kitchener, Ontario.

This sale is subject to the *Residential Complex Sales Representation Act*, S.O. 1990. chap. R.28.

All of which I shall offer for sale at Public Auction, subject to such conditions as may be made known, on Thursday, January 22nd, 1998, at 10:00 a.m., if not redeemed before that time, at my office in the Courthouse, 20 Weber Street East, Kitchener, Ontario, N2H 1C3.

**TERMS:** Cash or certified cheque.  
Deposit of 10% of bid price at time of sale.  
Ten (10) days to arrange financing and make final payment.  
Delivery only upon payment in full.

This sale is subject to cancellation up to the time of the sale without any further notice.

**NOTE:** No employee of The Ministry of the Attorney General may purchase any goods or chattels, lands or tenements exposed by a Sheriff for sale under legal process either directly or indirectly.

Purchasers are responsible for investigating the title of JOHN PATRICK MORRIS and satisfying themselves as to the value of the interest being sold before the auction date and for all mortgages, charges, liens and encumbrances.

Dated at Kitchener, this 14th day of November, 1997.

LAWRENCE J. KETCHMARK,  
Sheriff,  
(9467) 49 Regional Municipality of Waterloo.

UNDER AND BY VIRTUE of an execution issued out of the Ontario Court (General Division) to me directed, against the lands and tenements of TAT NANG WONG at the suit of XIAO YAN SUN, I have seized and taken in execution, the right, title, interest and equity of TAT NANG WONG in and to:

ALL AND SINGULAR that certain parcel or tract of land and premises situate as Parcel 4-2, Section 4M-426, Part Lot 4, Plan 4M-426, Part 1 and 2, 4R4572 together with parcel 4-3 Section 4M-426 Parts 3 and 4, 4R4572 as in LT387096 subject to Parts 1 and 2, 4R4572 in favour of Parcel 4-3 Section 4M-426 as in LT363450, LT363451, LT363452, LT363453 Nepean in the Regional Municipality of Ottawa Carleton known municipally as 107 Homestead Street, Nepean.

ALL OF WHICH said right, title, interest and equity of redemption of the said TAT NANG WONG in the said lands and tenements I shall offer for sale by Public Auction, in my office, Room 2076, Court House, 161 Elgin Street, Ottawa, Ontario on Friday, January 9, 1998 at 10:00 a.m.

**TERMS:** Cash or certified cheque.  
Deposit of 10% bid price at time of sale.  
Ten days to arrange financing.  
Delivery only upon payment in full.

This sale is subject to cancellation up to time of sale without any further notice.

**NOTE:** No employee of The Ministry of the Attorney General may purchase any goods or chattels, lands or tenements exposed by a Sheriff for sale under legal process either directly or indirectly.

Dated at Ottawa, this 13th day of November, 1997

ROBERT ST. CLAIR,  
Sheriff,  
(9468) 49 Regional Municipality of  
Ottawa-Carleton.

**Sales of Lands for Tax Arrears  
by Public Tender  
Ventes de terrains par appel d'offres  
pour arriéré d'impôt**

MUNICIPAL TAX SALES ACT

**THE MOOSONEE DEVELOPMENT AREA BOARD**

TAKE NOTICE, that tenders are invited for the purchase of the land(s) described below and will be received until 2:00 p.m. local time on January 6, 1998, at the Municipal Office located at Airport Terminal, 2nd Floor, P.O. Box 127, Moosonee, Ontario, P0L 1Y0.

The tenders will then be opened in public on the same day at the Municipal Office located at Airport Terminal, 2nd Floor, Moosonee, Ontario.

Description of Land(s)	Minimum Tender Amount
Parcel 7843 NEC, the Surface Rights of Lot 7, Plan M-362 C, Townsite of Moosonee, District of Cochrane, .....	\$19,259.03
Parcel 8686 NEC, the Surface Rights of Lot 492, Plan M-14 C, Townsite of Moosonee, District of Cochrane, .....	\$5,431.60

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust corporation or Province of Ontario Savings Office payable to the board and representing at least 20 per cent of the tender amount.

The Board makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act* being chapter M.60 of the Revised Statutes of Ontario, 1990 and the *Municipal Tax Sales Rules* made under the Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender contact:

MARY ETHERINGTON,  
Secretary - Treasurer,  
The Moosonee Development Area Board,  
P.O. Box 127,  
Moosonee, Ontario  
P0L 1Y0  
Telephone: (705) 336-2993  
Facsimile: (705) 336-2426

(9478) 49





# Publications under the Regulations Act Publications en vertu de la Loi sur les règlements

1997—12—06

## ONTARIO REGULATION 407/97 made under the FIRE PROTECTION AND PREVENTION ACT, 1997

Made: November 12, 1997

Filed: November 13, 1997

### APPOINTMENT OF ARBITRATORS AND CONCILIATION OFFICERS

1. A conciliation officer described in section 49 of the Act shall be appointed by the Minister.

2. (1) For the purpose of subsection 53 (3) of the Act, the parties shall jointly appoint a single arbitrator.

(2) If there is a failure to jointly appoint a single arbitrator, the Minister, upon request of either party, may appoint the arbitrator, and any person so appointed by the Minister shall be deemed to have been appointed in accordance with the collective agreement.

JAMES MICHAEL FLAHERTY  
*Minister of Labour*

Dated on November 12, 1997.

49/97

## ONTARIO REGULATION 408/97 made under the MUNICIPAL ACT

Made: November 13, 1997  
Filed: November 14, 1997

Amending O. Reg. 215/96  
(Assumption of Powers)

Note: Ontario Regulation 215/96 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

1. Section 2 of Ontario Regulation 215/96 is amended by adding the following paragraph:

7. Police services and policing facilities in accordance with the *Police Services Act*.

AL LEACH  
*Minister of Municipal Affairs and Housing*

Dated on November 13, 1997.

## RÈGLEMENT DE L'ONTARIO 408/97 pris en application de la LOI SUR LES MUNICIPALITÉS

pris le 13 novembre 1997  
déposé le 14 novembre 1997

modifiant le Règl. de l'Ont. 215/96  
(Prise en charge de pouvoirs)

Remarque : Le Règlement de l'Ontario 215/96 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

1. L'article 2 du Règlement de l'Ontario 215/96 est modifié par adjonction de la disposition suivante :

7. Conformément à la *Loi sur les services policiers*, les services et installations policiers.

AL LEACH  
*Ministre des Affaires municipales et du Logement*

Fait le 13 novembre 1997.

**ONTARIO REGULATION 409/97**  
made under the  
**MUNICIPAL ACT**

Made: November 14, 1997  
Filed: November 14, 1997

Amending O. Reg. 27/96  
(Licensing Powers)

Note: Since January 1, 1997, Ontario Regulation 27/96 has been amended by Ontario Regulations 379/97 and 405/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Ontario Regulation 27/96 is amended by adding the following section:**

5. (1) A municipality, including a regional municipality, does not have the power under Part XVII.1 or section 232 of the *Municipal Act*, section 106 of the *Regional Municipalities Act*, subsection 38 (1) of the *Regional Municipality of Haldimand-Norfolk Act*, section 48 of the *Regional Municipality of Hamilton-Wentworth Act*, subsection 41 (2) of the *Regional Municipality of Sudbury Act*, section 36 of the *Regional Municipality of Waterloo Act* or subsection 30 (4) or (5) of the *Regional Municipality of York Act* to license, regulate or govern,

- (a) a transportation business wherein property is conveyed in motor vehicles used for hire (other than buses, cabs and tow trucks); or
- (b) the owners or drivers of motor vehicles used for hire (other than buses, cabs and tow trucks) for the conveyance of property.

(2) A municipality, including a regional municipality, does not have the power under Part XVII.1 or section 232 of the *Municipal Act*, section 106 of the *Regional Municipalities Act*, subsection 38 (1) of the *Regional Municipality of Haldimand-Norfolk Act*, section 48 of the *Regional Municipality of Hamilton-Wentworth Act*, subsection 41 (2) of the *Regional Municipality of Sudbury Act*, section 36 of the *Regional Municipality of Waterloo Act* or subsection 30 (4) or (5) of the *Regional Municipality of York Act* to regulate or govern motor vehicles used for hire (other than buses, cabs and tow trucks) for the conveyance of property.

**2. This Regulation comes into force on January 2, 1998.**

AL LEACH  
Minister of Municipal Affairs and Housing

Dated on November 13, 1997.

49/97

**RÈGLEMENT DE L'ONTARIO 409/97**  
pris en application de la  
**LOI SUR LES MUNICIPALITÉS**

pris le 14 novembre 1997  
déposé le 14 novembre 1997

modifiant le Règl. de l'Ont. 27/96  
(Pouvoirs en matière de délivrance de permis)

Remarque : Depuis le 1<sup>er</sup> janvier 1997, le Règlement de l'Ontario 27/96 a été modifié par les Règlements de l'Ontario 379/97 et 405/97. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. Le Règlement de l'Ontario 27/96 est modifié par adjonction de l'article suivant :**

5. (1) La partie XVII.1 ou l'article 232 de la *Loi sur les municipalités*, l'article 106 de la *Loi sur les municipalités régionales*, le paragraphe 38 (1) de la *Loi sur la municipalité régionale de Haldimand-Norfolk*, l'article 48 de la *Loi sur la municipalité régionale de Hamilton-Wentworth*, le paragraphe 41 (2) de la *Loi sur la municipalité régionale de Sudbury*, l'article 36 de la *Loi sur la municipalité régionale de Waterloo* ou le paragraphe 30 (4) ou (5) de la *Loi sur la municipalité régionale de York* ne confère à aucune municipalité, y compris une municipalité régionale, le pouvoir d'assujettir à l'obtention de permis, de réglementer ou de régir, selon le cas :

- a) une entreprise de transport où des biens sont transportés dans des véhicules automobiles utilisés à des fins de location (autres que les autobus, les taxis et les dépanneuses);
- b) les propriétaires ou les chauffeurs de véhicules automobiles utilisés à des fins de location (autres que les autobus, les taxis et les dépanneuses) pour le transport de biens.

(2) La partie XVII.1 ou l'article 232 de la *Loi sur les municipalités*, l'article 106 de la *Loi sur les municipalités régionales*, le paragraphe 38 (1) de la *Loi sur la municipalité régionale de Haldimand-Norfolk*, l'article 48 de la *Loi sur la municipalité régionale de Hamilton-Wentworth*, le paragraphe 41 (2) de la *Loi sur la municipalité régionale de Sudbury*, l'article 36 de la *Loi sur la municipalité régionale de Waterloo* ou le paragraphe 30 (4) ou (5) de la *Loi sur la municipalité régionale de York* ne confère à aucune municipalité, y compris une municipalité régionale, le pouvoir de réglementer ou de régir les véhicules automobiles utilisés à des fins de location (autres que les autobus, les taxis et les dépanneuses) pour le transport de biens.

**2. Le présent règlement entre en vigueur le 2 janvier 1998.**

AL LEACH  
Ministre des Affaires municipales et du Logement

Fait le 13 novembre 1997.



**ONTARIO REGULATION 410/97**  
made under the  
**COUNTY OF SIMCOE ACT, 1993**

Made: November 12, 1997  
Filed: November 19, 1997

**1997 RATES OF TAXATION FOR  
GENERAL PURPOSES**

1. This regulation applies with respect to rates of taxation for general purposes for the year 1997.

2. The council of a local municipality specified in the Schedule shall levy the rates of taxation for general purposes that are determined in accordance with this Regulation on the real property and business assessment according to the last returned assessment roll in the merged areas of each local municipality.

3. (1) The rates of taxation that would be levied but for this regulation shall be increased or decreased by the number of mills specified in the Schedule for each merged area in each local municipality specified in the Schedule.

(2) The amounts calculated using the rates of taxation determined under subsection (1) for each merged area shall be included in the sums adopted by each local municipality for general purposes in accordance with section 162 of the *Municipal Act*.

**Schedule**

**1. LOCAL MUNICIPALITY: Town of Midland**

MERGED AREA	RESIDENTIAL MILL RATE ADJUSTMENTS	COMMERCIAL MILL RATE ADJUSTMENTS
Former Town of Midland	+5.468	+6.433
Former Township of Tiny	-68.633	-80.747

**2. LOCAL MUNICIPALITY: Township of Severn**

MERGED AREA	RESIDENTIAL MILL RATE ADJUSTMENTS	COMMERCIAL MILL RATE ADJUSTMENTS
Former Village of Coldwater	+3.345	+3.934
Former Township of Matchedash	-31.736	-37.337
Former Township of Medonte	-2.996	-3.525
Former Township of Orillia	+2.397	+2.819
Former Township of Tay	-0.418	-0.492

**3. LOCAL MUNICIPALITY: Town of Bradford West Gwillimbury**

MERGED AREA	RESIDENTIAL MILL RATE ADJUSTMENTS	COMMERCIAL MILL RATE ADJUSTMENTS
Former Town of Bradford	+2.783	+3.274
Former Township of West Gwillimbury	-29.287	-34.455
Former Township of Tecumseth	-99.794	-117.405

**4. LOCAL MUNICIPALITY: Town of Penetanguishene**

MERGED AREA	RESIDENTIAL MILL RATE ADJUSTMENTS	COMMERCIAL MILL RATE ADJUSTMENTS
Former Town of Penetanguishene	+10.009	+12.775
Former Township of Tiny	-268.511	-315.895

AL LEACH  
*Minister of Municipal Affairs and Housing*

Dated on November 12, 1997.

49/97

**ONTARIO REGULATION 411/97**  
made under the  
**FRENCH LANGUAGE SERVICES ACT**

Made: November 19, 1997  
Filed: November 19, 1997

Amending O. Reg. 671/92  
(Exemptions)

Note: Ontario Regulation 671/92 has not previously been amended.

**1. Section 2 of Ontario Regulation 671/92 is revoked.**

49/97

**ONTARIO REGULATION 412/97**  
made under the  
**PLANNING ACT**

Made: November 18, 1997  
Filed: November 20, 1997

Amending O. Reg. 25/86  
(Zoning Areas—Territorial District of Kenora,  
Part of the Sioux Lookout Planning Area)

Note: Since January 1, 1997, Ontario Regulation 25/86 has been amended by Ontario Regulations 12/97, 143/97, 144/97, 218/97 and 285/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Ontario Regulation 25/86 is amended by adding the following section:**

**126.** (1) Despite section 16, no building or structure shall be erected other than a boat-house, steam-bath, dock or wharf within 9.95 metres of the shoreline of a lake on the lands described in subsection (3).

(2) Despite paragraph 4 of subsection 28 (1), the minimum front yard setback requirement for uses, buildings and structures is 9.95 metres on the lands described in subsection (3).

(3) Subsections (1) and (2) apply to two parcels of land in the geographic Township of Pickerel in the District of Kenora, being Parcel 18621 being part of Lot 3, Fifth Concession, Township of Pickerel, District of Kenora, being all of the parcel and Parcel 35373, being location S.N. 76, Township of Pickerel, District of Kenora, being all of the parcel, and more particularly described as Part 1, Reference Plan 23R-5772 deposited in the Land Registry Office for the Land Titles Division of Kenora (No. 23).

**THERISA SINGH**  
*Acting Manager*  
Provincial Planning Services Branch  
Ministry of Municipal Affairs and Housing

Dated on November 18, 1997.

49/97

**RÈGLEMENT DE L'ONTARIO 411/97**  
pris en application de la  
**LOI SUR LES SERVICES EN FRANÇAIS**

pris le 19 novembre 1997  
déposé le 19 novembre 1997

modifiant le Règl. de l'Ont. 671/92  
(Exemptions)

Remarque : Le Règlement de l'Ontario 671/92 n'a pas été modifié antérieurement.

**1. L'article 2 du Règlement de l'Ontario 671/92 est abrogé.**

**ONTARIO REGULATION 413/97**  
made under the  
**LOAN AND TRUST CORPORATIONS ACT**

Made: November 19, 1997  
Filed: November 20, 1997

Amending Reg. 733 of R.R.O. 1990  
(General)

Note: Regulation 733 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Sections 1 to 5 of Regulation 733 of the Revised Regulations of Ontario, 1990 are revoked and the following substituted:**

**PART I**  
**GENERAL**

**1. In this Regulation,**

"co-operative credit society" means a body corporate organized and operated on co-operative principles, one of whose principal purposes is to provide financial services to its members;

"entity" means a body corporate, trust, partnership, fund, unincorporated association or organization, Her Majesty in right of Canada or of a province of Canada, an agency of Her Majesty in either of such rights and the government of a foreign country or any political subdivision thereof and any agency thereof;

"financial institution" means,

- (a) a corporation incorporated by or under the laws of Ontario, of Canada or of any other province or territory of Canada,
- (b) a bank,
- (c) an insurance company,
- (d) a co-operative credit society incorporated and regulated by or under the laws of Canada or of any province or territory of Canada, including a credit union or caisse populaire,
- (e) a securities dealer, or
- (f) a foreign institution;

“foreign institution” means an entity that is,

- (a) engaged in the business of banking, the trust, loan or insurance business, the business of a co-operative credit society or the business of dealing in securities or is otherwise engaged primarily in the business of providing financial services, and
- (b) incorporated or formed otherwise than by or under the laws of Canada or a province or territory of Canada;

“insurance company” means an insurance company incorporated by or under the laws of Ontario, of Canada or of any other province or territory of Canada;

“real estate corporation” means a body corporate that is primarily engaged in holding, managing or otherwise dealing with real estate or shares of a body corporate or ownership interests in an unincorporated entity that is also primarily engaged in holding, managing or otherwise dealing with real estate;

“real estate holding vehicle” means a limited partnership or a trust that is primarily engaged in holding, managing or otherwise dealing with real estate or shares of a body corporate or ownership interests in an unincorporated entity that is also primarily engaged in holding, managing or otherwise dealing with real estate;

“securities dealer” means an entity that is incorporated by or under the laws of Canada or a province or territory of Canada that is primarily engaged in dealing in securities, including portfolio management and investment counselling;

“specialized financing corporation” means a body corporate that is primarily engaged in providing specialized business management, in making investments or in providing financing or advisory services.

**2. (1) Subsection 10 (3) of the Regulation is amended by striking out “forty-five days and not more than sixty” in the second line and substituting “21”.**

**(2) Subsection 10 (4) of the Regulation is amended by striking out “forty-five days and not more than sixty” in the second line and substituting “21”.**

**3. Sections 21 to 29 of the Regulation are revoked and the following substituted:**

#### PROVINCIAL CORPORATIONS

**21. (1)** Sections 21 to 26 apply to securities, property and other assets held by a provincial corporation as collateral for a loan or as an acquisition for its own account.

(2) Despite subsection (1), if a provincial corporation enters into a securities lending arrangement with a financial institution or securities dealer, sections 21 to 26 apply in respect of any securities received by the provincial corporation as a result of the arrangement but do not apply in respect of any securities lent by the provincial corporation under the arrangement.

#### CUSTODY

**22. (1)** Documents evidencing ownership of securities, property or other assets that are held by a provincial corporation as collateral for a loan or for its own account shall be placed in the possession of a corporation, a bank or the Bank of Canada.

(2) Despite subsection (1), documents evidencing ownership of assets not retained in Canada that are acquired by a provincial corporation for its own account may be placed in the possession of an institution in a jurisdiction outside Canada that is,

- (a) recognized by the laws of the jurisdiction as a bank or an equivalent to a bank; and
- (b) empowered by the laws of the jurisdiction to act as a custodian, and that is regulated by a system similar to that of Ontario

(3) There shall be an agreement in writing between a provincial corporation and a custodian mentioned in subsection (1) or (2) governing the custody of securities, property and other assets that sets out the obligations of the custodian and the cost, if any, of the services to be provided to the provincial corporation.

(4) In this section,

“assets not retained in Canada” means,

- (a) bonds, debentures and other forms of indebtedness of a body corporate that is incorporated outside Canada,
- (b) shares of a body corporate that is incorporated outside Canada, unless the shares are listed on a Canadian stock exchange,
- (c) real estate located outside Canada,
- (d) loans that are secured by real estate or leaseholds outside Canada, and
- (e) mutual fund shares or units that are traded only by dealers who are not registered with a securities commission in Canada.

#### SAFEKEEPING

**23.** A provincial corporation holding securities or property as collateral for a loan shall obtain from the borrower an assignment of the borrower’s rights in the securities or property and shall obtain,

- (a) in the case of securities, a power of attorney and proof of the assignability of the securities; and
- (b) in the case of property, proof of the ownership rights of the borrower.

**24.** A provincial corporation holding securities or government debt instruments for its own account shall, within 15 days after settlement, forward the securities for registration in the name of the provincial corporation or its nominee.

**25. (1)** Canadian money market instruments that are purchased by a provincial corporation for its own account may be held in bearer form or in registered form accompanied by a power of attorney appointing the provincial corporation.

(2) Securities and government debt instruments other than Canadian money market instruments that the provincial corporation intends to dispose of within 90 days after acquisition may be held by the provincial corporation in bearer form or in registered form accompanied by a power of attorney appointing the provincial corporation.

(3) Section 23 or 24, as the case may be, applies to a provincial corporation that does not dispose of securities or government debt instruments described in subsection (2) within 90 days after acquisition.

(4) Despite section 24, if a provincial corporation acquires securities or government debt instruments,

- (a) that are issued in bearer form only, the provincial corporation may hold the securities or government debt instruments in bearer form; and
- (b) that are Canadian money market instruments in street form, the provincial corporation may hold the securities or government debt instruments in street form.



(5) In this section, "money market instrument" means a publicly traded debt instrument issued by a body corporate or a government, maturing within three years after its date of issue, that is,

- (a) purchased by a provincial corporation for its own account; or
- (b) held by a provincial corporation as collateral for a loan payable within up to one year from the day the loan was made.

26. A provincial corporation must take reasonable and prudent action to ensure that ownership rights of, or security interest in securities, property and other assets that are registered in the name of the provincial corporation or its nominee, or held by the provincial corporation, are protected under provincial law.

#### REGISTERED CORPORATIONS

27. (1) Sections 27 to 29.2 apply to securities, property and other assets held by a registered corporation as trust assets under administration.

(2) Despite subsection (1), if a registered corporation enters into a securities lending arrangement with a financial institution or securities dealer for assets held by the registered corporation as trust assets under administration, sections 27 to 29.2 apply in respect of any securities received by the registered corporation as a result of the arrangement but do not apply in respect of any securities lent by the registered corporation under the arrangement.

#### CUSTODY

28. (1) Documents evidencing ownership of securities, property or other assets that are held by a registered corporation as trust assets under administration shall be placed in the possession of a corporation, a bank or the Bank of Canada.

(2) Subsection (1) does not apply if a court order or an instrument that creates a fiduciary duty contains a direction respecting securities, property or trust assets that is inconsistent with subsection (1).

(3) There shall be an agreement in writing between a registered corporation and a custodian holding documents in accordance with subsection (1) or (2) governing the custody of securities, property and other assets held as trust assets that sets out the obligations of the custodian and the costs, if any, of the services to be provided to the registered corporation.

#### SAFEKEEPING

29. (1) Trust assets shall be registered and held by a registered corporation or its nominee in trust for the beneficial owner or in the name of the beneficial owner.

(2) Subsection (1) does not apply where a court order or an instrument that creates a fiduciary duty contains a direction respecting securities, property or other assets that is inconsistent with the requirements of that subsection.

29.1 (1) Canadian money market instruments that are held by a registered corporation as trust assets may be held in bearer form or in registered form accompanied by a power of attorney appointing the registered corporation.

(2) Securities and government debt instruments other than Canadian money market instruments held by a registered corporation as trust assets that the registered corporation intends to dispose of within 90 days after acquisition may be held by the registered corporation in bearer form or in registered form accompanied by a power of attorney appointing the registered corporation.

(3) Section 29 applies to a registered corporation that does not dispose of securities or government debt instruments described in subsection (2) within 90 days after acquisition.

(4) Despite section 29, if a registered corporation acquires securities or government debt instruments held by the registered corporation as trust assets,

- (a) that are issued in bearer form only, the registered corporation may hold the securities or government debt instruments in bearer form; and
- (b) that are Canadian money market instruments in street form, the registered corporation may hold the securities or government debt instruments in street form.

(5) In this section "money market instrument" means a publicly traded debt instrument issued by a body corporate or a government, maturing within three years after its date of issue and purchased by a registered corporation as a trust asset.

29.2 Where a registered corporation holds securities, property or other assets as trust assets and the securities, property or other assets are registered in the name of the registered corporation or its nominee, the registered corporation must take reasonable and prudent action to ensure that the ownership rights of or security interest in the securities, property or other assets are protected under provincial law.

29.3 (1) The existence of and ownership rights of a person in a security or government debt instrument held by a provincial corporation as collateral for a loan or as an acquisition for its own account or held by a registered corporation as trust assets under administration may be established by the delivery to the provincial corporation or registered corporation of,

- (a) a certificate respecting the issuance and registration of the security or government debt instrument; or
- (b) a statement of account for the security or government debt instrument given by a recognized securities depository in Canada that is authorized by law to operate a book based system or a comparable institution in a foreign jurisdiction that is authorized by law to operate a transnational book based system.

(2) In this section, "book based system" means a system for the central handling of securities within which all securities in a class or series of any issuer that are deposited into the system are treated as fungible and may be transferred or pledged by a bookkeeping entry without the actual delivery of the securities.

**4. Clauses 34 (1) (e) and (f) of the Regulation are revoked and the following substituted:**

- (e) revenue from loans to individuals;
- (f) revenue from loans to persons other than individuals;

**5. (1) Clauses 37 (1) (f) and (g) of the Regulation are revoked and the following substituted:**

- (f) loans to individuals;
- (g) loans to persons other than individuals;

**(2) Clause 37 (2) (g) of the Regulation is revoked and the following substituted:**

- (g) subordinated indebtedness;

**6. Section 38 of the Regulation is amended by adding the following paragraph:**

- 3.1 Contractual obligations in respect of guarantees, letters of credit, endorsements, acceptances or other similar obligations not recorded on the balance sheet.

**7. Subsection 39 (2) of the Regulation is revoked.**

**8. Section 40 of the Regulation is revoked and the following substituted:**

**40.** (1) For the purposes of the definition of "capital base" in the Act, the capital base of a provincial corporation shall be calculated by adding the book value of,

- (a) all or any portion of the fully paid-in common and preference shares;
- (b) contributed surplus;
- (c) subordinated indebtedness;
- (d) retained earnings or deficit; and
- (e) net deferred income taxes payable,

and subtracting from that amount,

- (f) the book value of,
  - (i) that portion of the shares and subordinated indebtedness of subsidiary loan or trust corporations that are registered under the Act or similar legislation, that the subsidiary includes in calculating its capital base,
  - (ii) that portion of the shares and subordinated indebtedness of a subsidiary bank, insurance company or foreign institution that the subsidiary includes in calculating its capital base,
  - (iii) any substantial investment in a body corporate that is permitted under clause 140 (2) (b) or section 142,
  - (iv) goodwill and other intangible assets,
  - (v) deferred charges, including start-up costs, operating losses and other similar charges,
  - (vi) leasehold improvements less the accumulated amortization on the leasehold,
  - (vii) investments, or any part of an investment, that are not permitted by or are in excess of the limits imposed by the Act or this Regulation,
  - (viii) investments in the shares of, or loans made to, a securities dealer in which the corporation owns more than 10 per cent of the voting shares,
  - (ix) unrealized losses on foreign currency translations, and
  - (x) net deferred income taxes recoverable;
- (g) the amount, if any, by which the aggregate book value of the investments of the provincial corporation, except securities issued or guaranteed by the Government of Canada, the government of a province, territory or municipality or an agency thereof, exceeds the aggregate market value of the investments determined in accordance with section 42;
- (h) the amount, if any, by which the aggregate book value of real estate, other than office premises, owned by the provincial

corporation exceeds its aggregate market value as determined by an appraisal made within the preceding two years;

- (i) the amount of any shares and subordinated indebtedness issued by the provincial corporation that represents either directly or indirectly a back to back placement with one or more financial institutions;
- (j) the amount which is the percentage of the outstanding amount of any subordinated indebtedness with respect to an issue described in subsection 89 (3), as set out in the Table to this section;
- (k) the amount of any subordinated indebtedness issued by a provincial corporation which is owned by a subsidiary of the corporation, less any amount which has been deducted with respect to that subordinated indebtedness under clause (j); and
- (l) if the corporation has a subsidiary that is not a financial institution or a subsidiary of a financial institution other than the corporation,
  - (i) the amount determined under subsection (2), and
  - (ii) the amount determined under subsection (3).

(2) The amount in subclause (1) (l) (i) is determined by,

- (a) assuming, for the purposes of the clause, that the corporation referred to in subsection (1) is the subsidiary and calculating the amounts described by clauses (1) (f), (g) and (h);
- (b) adding the amounts determined in clause (a); and
- (c) multiplying the amount determined in clause (b) by the percentage of equity in the subsidiary that the corporation holds.

(3) The amount in subclause (1) (l) (ii) is the amount obtained by dividing the total of all amounts borrowed by the subsidiary, other than from the corporation or a subsidiary of the corporation, by the authorized borrowing multiple of the corporation determined under section 157 of the Act.

TABLE  
(For clause 40 (1) (j))

Time Period to Maturity or Date on which Holder has Contractual Retraction Right	Percentage of Outstanding Amount
5 years or more	0%
4 years or more and less than 5 years	20
3 years or more and less than 4 years	40
2 years or more and less than 3 years	60
1 year or more and less than 2 years	80
less than 1 year	100

**9. Subsection 42 (1) of the Regulation is amended by adding at the end "and, in this section, "investment" does not include a loan, whether secured or unsecured, or any investment in real estate or in a subsidiary".**

**10. (1) Clause 47 (2) (a) of the Regulation is revoked.**

**(2) Clause 47 (2) (b) of the Regulation is amended by striking out "after the recording referred to in clause (a)" in the first line.**

**11. Section 81 of the Regulation is amended by striking out "registered" in the first line and substituting "provincial" and by**



striking out "notes" in the third line and substituting "indebtedness".

12. Section 82 of the Regulation is amended by striking out "registered" wherever it occurs and substituting in each case "provincial".

13. Section 83 of the Regulation is revoked.

14. Sections 84, 84.1 and 84.2 of the Regulation are amended by striking out "registered" wherever it occurs and substituting in each case "provincial".

15. Section 85 of the Regulation is revoked and the following substituted:

85. For the purposes of section 160 of the Act,

- (a) a provincial corporation shall maintain its liquid assets unencumbered in any of the forms described in section 86; and
- (b) a provincial corporation shall maintain liquid assets in the minimum amount of 20 per cent of the total amount of deposits and obligations of the provincial corporation that are payable in 100 days or less.

16. Sections 86 to 88 of the Regulation are revoked and the following substituted:

86. The total amount of liquid assets maintained by a provincial corporation shall be the amount which is the aggregate of the following amounts for the corporation:

- 1. The amount by which the aggregate of cash on hand and demand deposits in banks, registered corporations and, if approved by the Superintendent, other depositories, exceeds the aggregate of,
  - i. overdrafts by the provincial corporation as shown in the accounting records, and
  - ii. debt obligations owed to banks, registered corporations and other lending institutions excluding the Bank of Canada that are,
    - A. repayable or callable at the option of the lender on demand or have a term to maturity when issued of seven days or less, and
    - B. borrowed to enable the provincial corporation to meet its short term requirements for liquid funds.
- 2. Treasury bills of Canada or a province, at book value.
- 3. Banker's acceptances with a remaining term to maturity of one year or less, at book value.
- 4. Term deposits, bearer deposit notes and similar instruments issued by banks, registered corporations and, if approved by the Superintendent, other depositories, that in each case either are callable on demand or mature within 100 days, at book value.
- 5. Bonds, debentures or other evidence of indebtedness that are issued or guaranteed by, or in respect of which the debt service is guaranteed by the Government of Canada, or the government of a province or a municipality, at market value.
- 6. Demand loans that are fully secured by assets of the classes specified in paragraphs 2 to 5 made to brokers, investment dealers and securities dealers registered in Canada, at book value.

7. Accrued interest due and receivable on the assets referred to in paragraphs 1 to 6.

87. The total amount of deposits and obligations of the provincial corporation that are payable in 100 days or less shall be the amount which is the aggregate of the following amounts for the corporation:

- 1. Demand deposits and savings accounts;
- 2. Deposits, debentures, certificates and similar instruments issued for a specified term but callable on demand at the holder's option;
- 3. All other deposits, debentures, certificates and similar instruments coming due in 100 days or less, or on notice of 100 days or less;
- 4. Borrowings, other than those included in paragraphs 1 to 3, from banks and other lending institutions coming due in 100 days or less or repayable at the option of the lender within 100 days, other than the indebtedness referred to in subparagraphs (i) and (ii) of paragraph 1 of section 86; and
- 5. Accrued interest on all liabilities due and payable within 100 days or less.

17. Sections 89 and 90 of the Regulation are revoked and the following substituted:

### PART XIII SUBORDINATED INDEBTEDNESS

89. (1) For the purposes of the Act, "subordinated indebtedness" means an instrument evidencing an indebtedness of a provincial corporation that by its terms provides that the indebtedness will, in the event of the insolvency or winding up of the corporation, be subordinate in right of payment to all deposit liabilities of the corporation and all other liabilities of the corporation except those that, by their terms, rank equally with or are subordinate to the indebtedness.

(2) All subordinated indebtedness issued by a provincial corporation shall provide,

- (a) that the redemption or payment of the subordinated indebtedness at maturity, upon default or otherwise, will be suspended if there are reasonable grounds to believe that,
    - (i) the corporation is, or after the redemption or payment would be, unable to pay its liabilities as they become due,
    - (ii) after the redemption or payment, the realizable value of the corporation's assets would be less than the aggregate of its liabilities, or
    - (iii) the redemption or payment would cause the corporation to be in contravention of the Act or the regulations;
  - (b) that, except in the event of the insolvency, bankruptcy or winding up of the corporation, the subordinated indebtedness will not be redeemed, paid or otherwise compromised by the corporation except on not less than 30 days written notice to the Superintendent by the corporation, a holder of the subordinated indebtedness or a trustee for the holders of the subordinated indebtedness; and
  - (c) for a fixed maturity date.
- (3) Clause (2) (a) does not apply to an issue of subordinated indebtedness if,
- (a) not more than 10 per cent of the principal amount of the subordinated indebtedness is issued to and beneficially owned at the



time of issue by one or more affiliates of the corporation, other than a securities dealer affiliate which acquires the subordinated indebtedness with a view to selling the subordinated indebtedness;

- (b) the subordinated indebtedness does not contain a special restrictive covenant or default clause which would allow the holder of the subordinated indebtedness in the event of the breach of the covenant or clause to require the corporation to accelerate the repayment of the subordinated indebtedness in circumstances other than the insolvency, bankruptcy or winding up of the corporation; and

- (c) the provincial corporation has delivered written notice to the Superintendent that the subordinated indebtedness is to be issued subject to this subsection.

(4) On application to the Superintendent by the provincial corporation, a holder of the subordinated indebtedness or a trustee for the holders of the subordinated indebtedness, the period of the notice referred to in clause (2) (b) may be reduced by the Superintendent.

**90.** (1) Every instrument evidencing subordinated indebtedness issued by a provincial corporation shall include,

- (a) the terms of its subordination;
- (b) all restrictions applicable on redemption or payment of the subordinated indebtedness; and
- (c) a disclosure that the subordinated indebtedness is not a deposit of the issuing corporation and is not insured by the Canada Deposit Insurance Corporation or, if appropriate, any similar public agency.

(2) No person shall, in any prospectus, advertisement, correspondence or literature relating to any subordinated indebtedness issued or to be issued by a provincial corporation, refer to the subordinated indebtedness otherwise than as subordinated indebtedness.

**18. Subsection 96 (4) of the Regulation is revoked.**

**19. (1) Subsection 101 (3) of the Regulation is revoked and the following substituted:**

- (3) The total investment of a Fund in,
  - (a) guaranteed investment certificates of any trust corporation;
  - (b) debentures of any loan corporation;
  - (c) deposits in a bank or receipts, deposit notes, certificates of deposit, acceptances and other similar instruments issued or endorsed by a bank; or
  - (d) bonds of, or guaranteed by, any municipal corporation,

may not exceed, in each case, 10 per cent of the book value of the Fund.

**(2) Subsection 101 (7) of the Regulation is revoked and the following substituted:**

(7) The liquidity of a Fund shall be maintained in adequate amounts and appropriate forms.

**20. The definition of "remuneration rates" in section 107 of the Regulation is revoked.**

**21. Sections 110 and 111 of the Regulation are revoked.**

**22. Part XVI of the Regulation is revoked.**

**23. (1) The heading to Part XVII of the Regulation is revoked and the following substituted:**

## PART XVII LOANS TO DIRECTORS, OFFICERS AND EMPLOYEES

**(2) Part XVII of the Regulation is amended by adding the following sections:**

**112.** For the purposes of subclause 142 (1) (a) (i) of the Act, all mortgage loans are prohibited, except a mortgage loan secured upon improved real estate in Canada under which the amount paid for or advanced on the mortgage, together with the amount of indebtedness under any mortgage on the real estate ranking equally with or prior to the mortgage does not exceed the lending value of the real estate to which the mortgage relates unless,

- (a) the mortgage loan is approved or insured under the *National Housing Act* (Canada); or
- (b) the excess is guaranteed or insured through an agency of the Government of Canada or of a province or territory of Canada or is insured by a policy of mortgage insurance issued by an insurance company licensed or registered under the *Insurance Companies Act* (Canada) or the *Insurance Act* or similar legislation of any province or territory of Canada, provided that the insurance company is not a subsidiary of the corporation.

**112.1** For the purposes of clause 142 (1) (b) of the Act, a loan is prohibited if at any time it exceeds the lesser of,

- (a) \$250,000; and
- (b) one-tenth of 1 per cent of the total assets of the corporation.

**24. Section 113 of the Regulation is amended by striking out "registered" in the first and second lines and substituting "provincial".**

**25. Part XVIII of the Regulation is amended by adding the following section:**

**114.1** In this Part,

"factoring corporation" means a body corporate the activities of which are limited to acting as a factor in respect of accounts receivable, including raising money for the purpose of acting as a factor and lending money while acting as such a factor;

"financial leasing corporation" means a body corporate the activities of which are limited to the financial leasing of personal property, and to,

- (a) entering into and accepting the assignment of conditional sales agreements in respect of personal property,
- (b) administering financial lease agreements and conditional sales agreements on behalf of any person, and
- (c) raising money for the purpose of financing the activities of the financial leasing corporation and investing that money pending its use for those activities;

"information processing services" means the collection, manipulation and transmission of information that is primarily financial or economic in nature or that relates to the business of an entity referred to in subsection 115 (1) or of a real estate holding vehicle;

"information services corporation" means a body corporate, the ancillary activities of which may include the design, development,

manufacture or sale of special purpose computer hardware, but that is primarily engaged in,

- (a) providing information processing services,
- (b) providing advisory or other services in the design, development or implementation of information management systems, or
- (c) designing, developing or marketing computer software;

"investment counselling and portfolio management corporation" means a body corporate the principal activity of which consists of,

- (a) offering advice or advising on investments, or
- (b) investing or controlling, in any way that involves an element of discretionary judgment by the body corporate,
  - (i) property, deposits or securities that are not owned by the body corporate, or
  - (ii) money that is not owned by the body corporate or deposited with the body corporate in the ordinary course of business;

"mutual fund corporation" means a body corporate whose activities are limited to investing funds of the body corporate, and includes a body corporate that is an issuer of securities that entitle the holder to receive, on demand or within a specified period after demand, an amount computed by reference to the value of a proportionate interest in the whole or in a part of the net assets, including a separate fund or trust account, of the issuer of the securities;

"mutual fund distribution corporation" means a body corporate whose principal activity is acting as a selling agent of units, shares or other interests in a mutual fund and acting as a collecting agent in the collection of payments for any of those interests if,

- (a) the proceeds of the sales of any of those interests, less any sales commissions and service fees, are paid to the fund, and
- (b) the existence of a sales commission and service fee in respect of the sale of any of those interests is disclosed to the purchaser of the interest before the sale;

"prescribed subsidiary" means a body corporate prescribed under subsection 115 (1);

"real estate brokerage corporation" means a body corporate that is primarily engaged in,

- (a) acting as an agent for vendors, purchasers, mortgagors, mortgagees, lessors or lessees of real estate, and
- (b) providing consulting or appraisal services in respect of real estate;

"service corporation", in relation to a provincial corporation, means a body corporate that engages exclusively in providing services,

- (a) and provides such services to,
  - (i) the corporation,
  - (ii) an entity in which the corporation has a substantial investment,
  - (iii) a financial institution that is affiliated with the corporation, or

- (iv) an entity in which a financial institution referred to in subclause (iii) has a substantial investment,

(b) and may also provide such services to,

- (i) another Canadian financial institution incorporated or formed by or under the laws of a province or territory of Canada or of Canada that has a substantial investment in the body corporate,
- (ii) an entity in which any Canadian financial institution referred to in subclause (i) has a substantial investment,
- (iii) a financial institution that is affiliated with any Canadian financial institution referred to in subclause (i), or
- (iv) an entity in which a financial institution referred to in subclause (iii) has a substantial investment;

"special purpose computer hardware" means computer equipment that is integral to the provision of financial services or of information services related to the business of financial institutions.

**26. (1) Subsection 115 (1) of the Regulation is revoked and the following substituted:**

(1) For the purposes of subsection 163 (1) of the Act, a provincial corporation may establish or acquire, as a subsidiary,

- (a) a financial institution;
- (b) a factoring corporation;
- (c) a financial leasing corporation;
- (d) an information services corporation;
- (e) an investment counselling and portfolio management corporation;
- (f) a mutual fund corporation;
- (g) a mutual fund distribution corporation;
- (h) a real estate brokerage corporation;
- (i) a real estate corporation;
- (j) a service corporation;
- (k) a specialized financing corporation;
- (l) a financial holding corporation that does not have a substantial investment in any entity other than in,
  - (i) a body corporate referred to in this subsection,
  - (ii) a real estate holding vehicle, or
  - (iii) any other entity in which a financial institution or specialized financing corporation controlled by the financial holding corporation has a substantial investment;
- (m) a body corporate whose activities are ancillary to the business of the corporation or of a financial institution that is its subsidiary; and
- (n) a body corporate that engages in two or more of the businesses or activities engaged in or carried on by bodies corporate referred to in any of clauses (b) to (m).



(2) Subsection 115 (2) of the Regulation is amended by striking out “registered” wherever it occurs and substituting in each case “provincial” and by striking out subclauses (b) (iv), (v), (vi) and (vii) and substituting the following:

- (iv) will notify the Superintendent forthwith of its disposition of any shares of the proposed subsidiary, and
- (v) will not permit the proposed subsidiary to amalgamate with another corporation or company without giving the Superintendent at least 15 days notice of the proposed amalgamation and obtaining the Superintendent’s approval.

**27. Section 116 of the Regulation is revoked.**

**28. Section 117 of the Regulation is revoked and the following substituted:**

**117.** (1) Every provincial corporation that has established or acquired a specialized financing corporation as a subsidiary shall ensure that at the time the subsidiary is acquired or established and at any subsequent time,

- (a) the subsidiary does not hold shares or ownership interests in a financial institution, directly or indirectly;
- (b) the aggregate of the book value of the shares held by the provincial corporation and its prescribed subsidiaries in the subsidiary and in all specialized financing corporations and the amount of loans that the provincial corporation and its subsidiaries have made to the subsidiary and all specialized financing corporations that are outstanding does not exceed 5 per cent of the corporation’s capital base;
- (c) the aggregate amount of all loans that were made to the subsidiary by all entities and that are outstanding does not exceed twice the amount of the subsidiary’s shareholders’ equity; and
- (d) the subsidiary has not held a substantial investment in any entity for more than 10 years.

(2) For the purposes of subsection (1),

- (a) the amount of the subsidiary’s debt and shareholders’ equity is the amount indicated on its balance sheet, prepared on an unconsolidated basis; and
- (b) the book value of the shares and ownership interests held by an entity is the book value indicated on the entity’s balance sheet.

**29. Section 122 of the Regulation is amended by striking out “registered” in the third line and substituting “provincial”.**

**30. Section 123 of the Regulation is revoked.**

**31. Section 124 of the Regulation is revoked and the following substituted:**

**124.** (1) A provincial corporation shall not enter into a financial lease agreement or a conditional sales agreement other than a financial lease agreement or conditional sales agreement,

- (a) in respect of personal property that was,
  - (i) selected by the lessee or purchaser and acquired by the corporation at the request of the lessee or purchaser, or

- (ii) previously acquired by the corporation in respect of another financial lease agreement or conditional sales agreement; and

- (b) the primary purpose of which is the extending of credit to a lessee or purchaser.

(2) A provincial corporation shall not direct its customers or potential customers to particular dealers in respect of personal property that is conditionally sold or that is to be conditionally sold under a conditional sales agreement with the corporation.

(3) A provincial corporation shall not permit its prescribed subsidiaries to do anything that the provincial corporation is prohibited from doing by subsection (1) or (2).

(4) Every financial lease agreement or conditional sales agreement entered into by a provincial corporation must include a provision assigning to the lessee or purchaser the benefit of, or setting out the responsibilities of the corporation in respect of, all warranties, guarantees or other undertakings made by a manufacturer or supplier in respect of the personal property that is the subject of the agreement.

(5) Every financial lease agreement entered into by a provincial corporation must yield,

- (a) a return to the corporation that is not less than its full investment in the property that is the subject of the agreement; and
- (b) a rate of return that is reasonable taking into account the term and the other conditions of the agreement and the rate of return sought by other lessors in respect of the financial leasing of similar property under similar conditions.

(6) For the purposes of subsection (5), the calculation of the return under a financial lease agreement must take into account,

- (a) rental charges that have been or are to be paid by the lessee under the lease agreement;
- (b) estimated tax benefits accruing to the corporation on account of the lease agreement, including tax credits and capital cost allowance claims; and
- (c) either,

- (i) if the lessee or a third party who is dealing at arm’s length with the corporation has, on or before the start of the lease agreement, contracted to purchase the leased property or has unconditionally guaranteed the resale value of the leased property at the date of expiration of the lease agreement, the amount of the purchase price or resale value, or

- (ii) in a case other than that set out in subclause (i), the lesser of the amount of the estimated residual value of the property and 25 per cent of the cost of acquisition of the property to the corporation.

(7) A provincial corporation shall not permit its prescribed subsidiaries to enter into a financial lease agreement or conditional sales agreement which the corporation is prohibited from entering into by subsections (4) and (5).

(8) The aggregate of the estimated residual value of all leased properties held by a provincial corporation and its prescribed subsidiaries that are referred to in subclause (6) (c) (ii) may not at any time exceed 10 per cent of the aggregate of the cost of acquisition of those leased properties.

(9) This section does not apply to leases or conditional sales contracts where the provincial corporation or any of its prescribed subsidiaries is either the lessee or the conditional purchaser.



(10) In this section, "estimated residual value" means, in respect of personal property that is the subject of a financial lease agreement with a provincial corporation or its prescribed subsidiaries, the value of the property immediately after the expiration of the lease agreement, as estimated by the corporation or its subsidiary at the time the lease agreement was entered into.

**32. The Regulation is amended by adding the following Part:**

**PART XX.2  
INVESTMENTS**

**126.** (1) For the purposes of section 164 of the Act,

"commercial loan" means,

(a) any loan made or acquired other than,

(i) a loan to an individual in an amount of \$250,000 or less,

(ii) a loan to,

(A) the Government of Canada, the government of a province or territory of Canada, a municipality in Canada or an agency of any of them,

(B) the government of a foreign country that is a member of the Organization for Economic Cooperation and Development or any political subdivision or agency thereof, or

(C) the Asian Development Bank, the Inter-American Development Bank, the International Bank for Reconstruction and Development or the International Finance Corporation,

(iii) a loan that is guaranteed by, or fully secured by securities issued by, a government, a municipality or an agency referred to in subclause (ii),

(iv) a loan that is secured by a mortgage on real estate if the mortgage is,

(A) on residential real estate and the amount of the loan, together with the amount then outstanding of any mortgage having an equal or prior claim against the real estate, does not exceed the lending value of the real estate at the time the loan is made or acquired, or

(B) on real estate other than residential real estate and,

1. the amount of the loan, together with the amount then outstanding of any mortgage having an equal or prior claim against the real estate, does not exceed the lending value of the real estate at the time the loan is made or acquired, and

2. at the time the loan is made or acquired the real estate provides an annual income sufficient to pay all annual expenses related to the real estate, including the payments owing under the mortgage and the mortgages having an equal or prior claim against the real estate,

(v) a loan that is secured by a mortgage on real estate, where

(A) the mortgage is on residential real estate and

1. the amount of the loan, together with the amount then outstanding of any mortgage having an equal or prior claim against the real estate, exceeds the lending value of the real estate at the time the loan is made or acquired, and

2. repayment of the amount of the loan that exceeds the lending value of the real estate is guaranteed or insured by a government agency or private insurer other than a subsidiary of the corporation that is licensed or registered under the laws of Canada or a province of Canada,

(B) the mortgage is on real estate other than residential real estate and

1. the amount of the loan, together with the amount then outstanding of any mortgage having an equal or prior claim against the real estate, exceeds the lending value of the real estate at the time the loan is made or acquired,

2. repayment of the amount of the loan that exceeds the lending value of the real estate is guaranteed or insured by a government agency or private insurer other than a subsidiary of the corporation that is licensed or registered under the laws of Canada or a province of Canada, and

3. at the time the loan is made or acquired, the real estate provides an annual income sufficient to pay all annual expenses related to the real estate, including the payments owing under the mortgage and the mortgages having an equal or prior claim against the real estate, or

(C) the loan is one referred to in clause 134 (2) (d), or

(vi) a loan that,

(A) consists of a deposit made by the corporation with another financial institution,

(B) is fully secured by a deposit with any financial institution, including the corporation,

(C) is fully secured by debt obligations guaranteed by any financial institution other than the corporation or a subsidiary of the corporation, or

(D) is fully secured by a guarantee of a financial institution other than the corporation or a subsidiary of the corporation,

(b) an investment in debt obligations other than;

(i) debt obligations that are,

(A) guaranteed by any financial institution other than the corporation or a subsidiary of the corporation,

(B) fully secured by deposits with any financial institution, including the corporation, or

(C) fully secured by debt obligations that are guaranteed by any financial institution other than the corporation or a subsidiary of the corporation,

(ii) debt obligations issued by,

- (A) the Government of Canada, the government of a province or territory of Canada, a municipality in Canada or an agency of any of them,
  - (B) the government of a foreign country that is a member of the Organization for Economic Cooperation and Development or any political subdivision or agency thereof, or
  - (C) the Asian Development Bank, the Inter-American Development Bank, the International Bank for Reconstruction and Development or the International Finance Corporation,
- (iii) debt obligations that are guaranteed or fully secured by securities issued by a government, a municipality or an agency referred to in subclause (ii),
  - (iv) debt obligations that are widely distributed, or
  - (v) debt obligations of an entity controlled by the corporation, and
- (c) an investment in shares of a body corporate or ownership interests in an unincorporated entity, other than,
    - (i) shares or ownership interests that are widely distributed,
    - (ii) shares or ownership interests of an entity controlled by the corporation, or
    - (iii) participating shares.

(2) If a provincial corporation and its prescribed subsidiaries make or acquire loans having an aggregate amount of more than \$250,000 to an individual to avoid the application of subclause (1) (a) (i) to the loans, the loans shall be deemed to be commercial loans.

**127.** In this Part,

“loan” includes an acceptance, endorsement or other guarantee, a deposit, a letter of credit, a financial lease, a conditional sales contract, a repurchase agreement and any other similar arrangement for obtaining funds or credit but does not include investments in securities;

“participating share” means a share of a body corporate that carries the right to participate in the earnings of the body corporate to an unlimited degree and to participate in a distribution of the remaining property of the body corporate on dissolution;

“residential real estate” means real estate consisting of buildings, at least one-half of the floor space of which is used or is intended to be used as one or more private dwellings;

“widely distributed” means,

- (a) in respect of debt obligations the distribution of which was exempted from the requirements to file a prospectus under the laws of Ontario, Canada, another province of Canada or a jurisdiction outside Canada,
- (i) at least 90 per cent of the maximum authorized principal of the debt obligations is held by one or more persons other than the provincial corporation and its prescribed subsidiaries, and,
- (A) the debt obligations were issued to at least 25 persons other than the corporation and its subsidiaries within

six months after the day on which the first of the debt obligations was issued, or

- (B) if the debt obligations are issued on a continuous basis, there are on average at least 25 holders other than the corporation and its subsidiaries, or

(ii) at the time of their initial distribution, the debt obligations met at least three of the following criteria:

1. Their initial term was less than one year.
2. They were rated by a rating agency.
3. They were distributed through a person authorized to trade in securities.
4. They were distributed in accordance with an offering circular or memorandum or a similar document relating to the distribution of securities,

(b) in respect of any securities not referred to in clause (a),

- (i) they are listed and posted for trading on a recognized stock exchange, or
- (ii) a prospectus relating to the issuance of the securities was filed under the laws of Ontario, Canada, another province of Canada or a jurisdiction outside Canada.

**PORTFOLIO LIMITS—COMMERCIAL LOANS**

**128.** (1) A provincial corporation with a capital base of \$15,000,000 or less shall not make or acquire a commercial loan, or acquire control of a body corporate of a type referred to in subsection 115 (1) that holds commercial loans, if the aggregate value of all commercial loans held by the corporation and its prescribed subsidiaries exceeds, or the acquisition or making of the commercial loan or the acquisition of control of the body corporate would cause the aggregate value of all commercial loans held by the corporation and its prescribed subsidiaries to exceed, 5 per cent of the consolidated assets of the corporation.

(2) A provincial corporation shall not permit its prescribed subsidiaries to do anything that the corporation is prohibited from doing by subsection (1).

**129.** (1) A provincial corporation with a capital base of more than \$15,000,000 may make or acquire commercial loans, or acquire control of a body corporate of a type referred to in subsection 115 (1) that holds commercial loans, if the aggregate value of all commercial loans held by the corporation and its prescribed subsidiaries would thereby exceed 5 per cent of the consolidated assets of the corporation only with the prior written approval of the Superintendent and in accordance with such conditions as the Superintendent may specify.

(2) A provincial corporation shall not permit its prescribed subsidiaries to do anything that the corporation is prohibited from doing by subsection (1).

**130.** For the purposes of sections 128 and 129, the consolidated assets of a provincial corporation shall be computed in accordance with generally accepted accounting principles.

**PORTFOLIO LIMITS—REAL ESTATE**

**131.** (1) A provincial corporation shall not acquire an interest in real estate, or make an improvement to any real estate in which the corporation or any of its prescribed subsidiaries has an interest, if the aggregate value of all interests of the corporation in real estate exceeds, or the acquisition of the interest or the making of the improvement



would cause that aggregate value to exceed, 70 per cent of the capital base of the corporation.

(2) A provincial corporation shall not permit its prescribed subsidiaries to do anything that the provincial corporation is prohibited from doing by subsection (1).

#### PORTFOLIO LIMITS—EQUITIES

132. (1) A provincial corporation shall not,

- (a) acquire any participating shares of any body corporate or any ownership interests in any unincorporated entity, other than those of a body corporate referred to in subsection 115 (1) or a real estate holding vehicle, in which the corporation has, or by virtue of the acquisition would have, a substantial investment; or
- (b) acquire control of a body corporate that holds shares or ownership interests referred to in clause (a),

if the aggregate value of all participating shares, excluding participating shares of bodies corporate referred to in subsection 115 (1) in which the corporation has a substantial investment, and all ownership interests in unincorporated entities, excluding ownership interests in real estate holding vehicles in which the corporation has a substantial investment, beneficially owned by the corporation and its prescribed subsidiaries exceeds, or the purchase or acquisition would cause that aggregate value to exceed, 70 per cent of the capital base of the corporation.

(2) A provincial corporation shall not permit its prescribed subsidiaries to do anything that the provincial corporation is prohibited from doing by subsection (1).

(3) For the purposes of subsection (2), a prescribed subsidiary of a provincial corporation does not include,

- (a) an insurance company;
- (b) a securities dealer; or
- (c) a subsidiary of an insurance company or a securities dealer.

#### AGGREGATE LIMIT—REAL ESTATE AND EQUITIES

133. (1) A provincial corporation shall not,

- (a) acquire,
  - (i) participating shares of a body corporate, other than those of a body corporate referred to in subsection 115 (1) in which the corporation has, or by virtue of the acquisition would have, a substantial investment,
  - (ii) ownership interests in an unincorporated entity, or
  - (iii) interests in real estate; or
- (b) make an improvement to real estate in which the corporation or any of its prescribed subsidiaries has an interest,

if the aggregate value of all participating shares and ownership interests referred to in subclauses (a) (i) and (ii) that are beneficially owned by the corporation and its prescribed subsidiaries and all interests of the corporation in real estate referred to in subclause (a) (iii) exceeds, or the acquisition or the making of the improvement would cause that aggregate value to exceed, the capital base of the corporation.

(2) A provincial corporation shall not permit its prescribed subsidiaries to do anything that the provincial corporation is prohibited from doing by subsection (1).

(3) For the purposes of subsection (2), a prescribed subsidiary of a provincial corporation does not include,

- (a) an insurance company;
- (b) a securities dealer; or
- (c) a subsidiary of an insurance company or a securities dealer.

#### RESTRICTION ON RESIDENTIAL MORTGAGES

134. (1) A provincial corporation shall not make a loan in Canada on the security of residential real estate in Canada for the purpose of purchasing, renovating or improving that real estate, or refinance such a loan, if the amount of the loan, together with the amount then outstanding of any mortgage having an equal or prior claim against the real estate would exceed the lending value of the real estate at the time of the loan.

(2) Subsection (1) does not apply in respect of

- (a) a loan made or guaranteed under the *National Housing Act* (Canada) or any other Act of Parliament by or pursuant to which a different limit on the value of real estate on the security of which the corporation may make a loan is established;
- (b) a loan if repayment of the amount of the loan that exceeds the maximum amount set out in subsection (1) is guaranteed or insured by a government agency or a private insurer other than a subsidiary of the corporation that is licensed or registered under the laws of Canada or a province of Canada;
- (c) the acquisition by the corporation from an entity of securities issued or guaranteed by the entity that are secured on any residential real estate, whether in favour of a trustee or otherwise, or the making of a loan by the corporation to the entity against the issue of such securities; or
- (d) a loan secured by a mortgage where,
  - (i) the mortgage is taken back by the corporation on real estate disposed of by the corporation, including where the disposition is by way of a realization of a security interest, and
  - (ii) the mortgage secures payment of an amount payable to the corporation for the real estate.

#### LOAN WORKOUTS

135. (1) Despite anything in this Part, if a provincial corporation or any of its prescribed subsidiaries has made a loan to an entity and a default has occurred under the terms of the agreement between the corporation or subsidiary and the entity with respect to the loan and any other documents governing the terms of the loan, the corporation or subsidiary may acquire,

- (a) if the entity is a body corporate, all or any of the shares of the body corporate;
- (b) if the entity is an unincorporated entity, all or any of the ownership interests in the entity;
- (c) all or any of the shares or all or any of the ownership interests in any entity that is an affiliate of the entity; or



- (d) all or any of the shares of a body corporate that is primarily engaged in holding shares of, ownership interests in or assets acquired from, the entity or any of its affiliates.

(2) A corporation or subsidiary that makes an acquisition under the authority of subsection (1) shall do all things necessary to ensure that it does not have a substantial investment in any entity referred to in subsection (1) within five years after the acquisition.

(3) Despite subsection (2), if pursuant to subsection (1) a corporation or any of its prescribed subsidiaries has acquired control of a body corporate that it would otherwise be permitted to acquire under subsection 115 (1), the corporation or subsidiary may continue to hold the investment if the approval of the Superintendent is obtained under section 163 of the Act.

#### REALIZATIONS

**136.** (1) Despite anything in this Part, if the investment or interest is acquired through the realization of a security interest held by a provincial corporation or any of its prescribed subsidiaries, the provincial corporation or subsidiary may acquire,

- (a) an investment in a body corporate;
- (b) an interest in an unincorporated entity; or
- (c) an interest in real estate.

(2) If, pursuant to the realization of a security interest held by a provincial corporation or any of its prescribed subsidiaries, the corporation acquires a substantial investment in an entity, other than an entity referred to in clauses 115 (1) (d) to (j) or a real estate holding vehicle, the corporation shall, within five years after the substantial investment was acquired, do all things necessary to ensure that the corporation no longer has a substantial investment in the entity.

(3) Despite subsection (2), if, pursuant to the realization of a security interest held by a provincial corporation or any of its prescribed subsidiaries, the corporation acquires control of a body corporate that it would otherwise be permitted to acquire under subsection 115 (1), the corporation or subsidiary may continue to hold the investment if the approval of the Superintendent is obtained under section 163 of the Act.

#### EXCLUSIONS FROM PORTFOLIO LIMITS

**137.** (1) The amount of all loans, investments and interests acquired by a provincial corporation and any of its prescribed subsidiaries as a result of a realization of a security interest or under section 135 shall not be included in calculating the value of loans, investments and interests of the corporation and its prescribed subsidiaries under sections 128 to 133,

- (a) in the case of an interest in real estate, for a period of 12 years after the interest was acquired;
- (b) in the case of a loan, investment or interest, other than an interest in real estate, for a period of five years after the loan, investment or interest was acquired.

(2) Subsection (1) does not apply to an investment or interest described in that subsection if the investment or interest is defined under sections 148 to 152 to be an interest in real estate and

- (a) the corporation or the subsidiary acquired the investment or interest as result of the realization of a security interest securing a loan that is defined under sections 148 to 152 to be an interest in real estate; or

- (b) the corporation or the subsidiary acquired the investment or interest under section 135 as a result of a default referred to in that section in respect of a loan that was defined by sections 148 to 152 to be an interest in real estate.

#### LIMITS ON SINGLE EXPOSURES

**138.** (1) The aggregate amount of all loans to, or investments in, any one person, or two or more persons that to the knowledge of the provincial corporation are related, made directly or indirectly by a provincial corporation and its prescribed subsidiaries shall not exceed the greater of,

- (a) \$500,000; and
- (b) 1 per cent of the consolidated assets of the corporation.

(2) Subsection (1) does not apply so as to restrict investments in,

- (a) securities issued or guaranteed by the government of Canada, including mortgages insured under the *National Housing Act* (Canada), by the government of any province of Canada or by any municipality in Canada;
- (b) debt instruments issued or endorsed by a bank; or
- (c) a prescribed subsidiary.

(3) For the purposes of clause (1) (b), the consolidated assets of the provincial corporation shall be computed in accordance with generally accepted accounting principles.

**139.** For the purposes of section 138, a person is considered to be related to,

- (a) every body corporate that the person controls and every affiliate of that body corporate;
- (b) the person's partner, if the person and the partner each have a 50 per cent interest in the partnership;
- (c) every trust or estate in which the person has a substantial beneficial interest or for which the person serves as trustee or in a similar capacity;
- (d) the spouse and every child of the person;
- (e) every relative of the person or of his or her spouse who has the same home as the person.

**140.** (1) A provincial corporation shall not acquire, increase or hold a substantial investment in any entity.

(2) Despite subsection (1) a corporation may acquire, increase or hold a substantial investment in,

- (a) a prescribed subsidiary;
- (b) a body corporate the business or activities of which are limited to the business engaged in or carried on by bodies corporate referred to in any of clauses 115 (1) (d) to (j); or
- (c) a real estate holding vehicle.

(3) Subsection (1) does not apply so as to restrict the acquisition, increase or holding of a substantial investment by a provincial corporation in an entity, other than an entity referred to in subsection 115 (1), by way of,

- (a) an acquisition of control of a financial institution or specialized financing corporation that has a substantial investment in the entity; or

- (b) an acquisition of shares or ownership interests in the entity by,
  - (i) a financial institution or specialized financing corporation that is controlled by the corporation, or
  - (ii) an entity controlled by a financial institution or specialized financing corporation that is controlled by the corporation.

(4) A provincial corporation must deliver written notice to the Superintendent 10 days before acquiring or increasing a substantial investment in a body corporate referred to in clause (2) (b).

#### MINORITY INVESTMENTS

**141.** In this Part,

“designated body corporate” means a body corporate referred to in any of clauses 115 (1) (a), (b), (c), (k) and (l);

“value” means,

- (a) in respect of a share or loan held by a provincial corporation or a prescribed subsidiary at a particular time, the book value of the share or loan that would be reported on the balance sheet of the corporation or subsidiary prepared as at that time in accordance with generally accepted accounting principles, and
- (b) in respect of a guarantee, the face value of the guarantee.

**142.** (1) Despite section 140 and subject to section 143, a provincial corporation may acquire, increase or hold a substantial investment in a designated body corporate.

(2) If the designated body corporate is a foreign institution, subsection (1) applies only if the activities of the designated body corporate are regulated by laws of the jurisdiction in which it carries on business.

(3) A provincial corporation must deliver written notice to the Superintendent 20 days before acquiring or increasing a substantial investment in a designated body corporate.

**143.** (1) A provincial corporation shall not acquire or increase a substantial investment in a designated body corporate under section 142 if, after the acquisition or increase, the total value of the following would exceed 50 per cent of the capital base of the corporation:

1. All shares beneficially owned by the corporation, and all shares beneficially owned by entities controlled by the corporation, in designated bodies corporate in which the corporation has a substantial investment but which it does not control.
2. All loans held by the corporation, and all loans held by entities controlled by the corporation, that were made to designated bodies corporate in which the corporation has a substantial investment but which it does not control.
3. All outstanding guarantees given by the corporation, and all outstanding guarantees given by entities controlled by the corporation, on behalf of designated bodies corporate in which the corporation has a substantial investment but which it does not control.

(2) A provincial corporation that has a substantial investment in a designated body corporate which it does not control shall not make a loan to, or give a guarantee on behalf of, the designated body corporate, or permit entities controlled by it to do so, if, after the making of the loan or the giving of the guarantee, the total value referred to in subsection (2) would exceed 50 per cent of the capital base of the corporation.

(3) In calculating the total values referred to in subsections (1) and (2), no amount shall be included in respect of shares acquired under sections 135 and 136.

#### SUBSTANTIAL INVESTMENT

**144.** For the purposes of this Regulation, a person has a substantial investment in,

- (a) a body corporate if,
  - (i) the voting rights attached to the aggregate of any voting shares of the body corporate beneficially owned by the person and by any entities controlled by the person exceed 10 per cent of the voting rights attached to all of the outstanding voting shares of the body corporate, or
  - (ii) the aggregate of any shares of the body corporate beneficially owned by the person and by any entities controlled by the person represents ownership of greater than 25 per cent of the shareholders' equity of the body corporate; and
- (b) an unincorporated entity if the aggregate of any ownership interests, however designated, into which the entity is divided, beneficially owned by the person and by any entities controlled by the person exceeds 25 per cent of all of the ownership interests into which the entity is divided.

**145.** Nothing in this Part requires the termination of a loan, the disposal of an investment, the termination of a commitment to make a loan or investment or the termination of a commitment to increase a loan or investment if the loan, investment or commitment was made before the coming into force of this Part but, if the loan or investment would be precluded or limited by this Part, the loan or investment shall not be increased after the coming into force of this Part, except pursuant to a commitment that was made before the coming into force of this Part.

#### REAL ESTATE INTEREST VALUATION

**146.** (1) In this Part,

“designated entity” means an entity other than,

- (a) a joint venture,
- (b) an insurance company,
- (c) a securities dealer, or
- (d) an entity that is controlled by an insurance company or securities dealer;

“joint venture” means a real estate entity,

- (a) that was formed for the purpose of a specific business undertaking by,
  - (i) a provincial corporation or by a designated entity controlled by a provincial corporation, and
  - (ii) one or more other persons,
- (b) in which the corporation or designated entity has a substantial investment, and
- (c) in respect of which the persons who formed the entity have agreed on joint control, regardless of the distribution of their equity;

“real estate entity” means a real estate corporation or a real estate holding vehicle;



“related real estate entity”, in respect of a provincial corporation, means,

- (a) a real estate entity, other than a designated entity controlled by the corporation, in which the corporation or a designated entity controlled by the corporation beneficially owns sufficient shares or ownership interests to cause the corporation or designated entity to have a substantial investment in the real estate entity, or
- (b) a real estate entity that is controlled by a real estate entity described in clause (a);

“third party”, in respect of a provincial corporation, means a person other than,

- (a) the corporation,
- (b) a designated entity controlled by the corporation, or
- (c) a related real estate entity of the corporation.

(2) For the purposes of sections 131 and 133, a prescribed subsidiary of a provincial corporation is a subsidiary of the corporation other than an insurance company, a securities dealer or a subsidiary of an insurance company or securities dealer.

(3) For the purposes of sections 148 to 151, the book value of an asset that is an interest of a provincial corporation in real estate, at a particular time, is,

- (a) if the asset is real estate, the gross book value of the real estate, less any accumulated depreciation, that would be reported on a balance sheet of the corporation prepared as at that time in accordance with generally accepted accounting principles; and
- (b) if the asset is a security or loan, the book value of the security or loan that would be reported on a balance sheet of the corporation prepared as at that time in accordance with generally accepted accounting principles.

**147.** For the purposes of this Part, the interests of a provincial corporation in real estate refers to the interests set out in sections 148 to 152.

#### DIRECT INTERESTS—REAL ESTATE AND DEBT OBLIGATIONS

**148.** (1) The following are interests of a provincial corporation in real estate:

- 1. Real estate beneficially owned by the corporation or by a designated entity controlled by the corporation.
- 2. A debt obligation issued for the purpose of acquiring or improving the real estate referred to in paragraph 1, or secured by that real estate, for which the corporation or a designated entity controlled by the corporation is liable.

(2) The value of the interests of a provincial corporation in real estate is,

- (a) in respect of real estate referred to in paragraph 1 of subsection (1), the book value of the real estate; and
- (b) in respect of a debt obligation referred to in paragraph 2 of subsection (1), any amount by which the book value of the debt obligation exceeds the book value of the real estate referred to in that paragraph.

#### INDIRECT INTERESTS—REAL ESTATE, SHARE AND OWNERSHIP INTERESTS

**149.** (1) The following are interests of a provincial corporation in real estate:

- 1. Real estate beneficially owned by a related real estate entity of the corporation that is a joint venture or by an entity in which the joint venture has a substantial investment, if the real estate would be reported on a balance sheet of the corporation prepared in accordance with generally accepted accounting principles.
- 2. Shares and ownership interests beneficially owned by the corporation, or by a designated entity controlled by the corporation, in any related real estate entity of the corporation other than a related real estate entity referred to in paragraph 1.

(2) The value of the interests of a provincial corporation in real estate is,

- (a) in respect of real estate referred to in paragraph 1 of subsection (1), the book value of the real estate; and
- (b) in respect of shares and ownership interests referred to in paragraph 2 of subsection (1), the book value of the shares and ownership interests.

#### INDIRECT INTERESTS—LOANS AND DEBT OBLIGATIONS

**150.** (1) The following are interests of a provincial corporation in real estate:

- 1. A debt obligation issued by a related real estate entity of the corporation and beneficially owned by the corporation or by a designated entity controlled by the corporation.
- 2. A loan made by the corporation, or by a designated entity controlled by the corporation, to a related real estate entity of the corporation.
- 3. A loan made by the corporation, or by a designated entity controlled by the corporation, to,

- i. a real estate entity in which a securities dealer or insurance company controlled by the corporation has a substantial investment, or
- ii. a real estate entity that is controlled by a real estate entity described in subparagraph i.

- 4. A debt obligation issued by a real estate entity described in paragraph 3 and beneficially owned by the corporation or by a designated entity controlled by the corporation.

- 5. A debt obligation that is,

- i. issued by a related real estate entity of the corporation,
- ii. beneficially owned by a third party, and
- iii. guaranteed by the corporation or by a designated entity controlled by the corporation.

- 6. A loan made by a third party to a related real estate entity of the corporation and guaranteed by the corporation or by a designated entity controlled by the corporation.

(2) The value of the interests of a provincial corporation in real estate is,

- (a) in respect of a debt obligation referred to in paragraph 1 or 4 of subsection (1), the book value of the debt obligation;



- (b) in respect of a loan referred to in paragraph 2 or 3 of subsection (1), the book value of the loan;
- (c) in respect of a guaranteed debt obligation referred to in paragraph 5 of subsection (1) or a guaranteed loan referred to in paragraph 6 of subsection (1),
  - (i) if the debt obligation is issued by, or the loan is made to, a related real estate entity that beneficially owns real estate that is an interest of the corporation in real estate under paragraph 1 of subsection 149 (1), any amount by which the face value of the guarantee exceeds the value of the real estate calculated in accordance with clause 149 (2) (a), and
  - (ii) in any case other than that set out in subclause (i), the face value of the guarantee.

#### INDIRECT INTERESTS—SECURED LOANS AND DEBT OBLIGATIONS

**151.** (1) If a provincial corporation or a designated entity controlled by a corporation makes a loan to, or beneficially owns or guarantees the debt obligation of, a third party, the loan or debt obligation is an interest of the corporation in real estate if it is secured by,

- (a) real estate beneficially owned by a third party in conjunction with,
  - (i) the corporation,
  - (ii) the designated entity,
  - (iii) a related real estate entity of the corporation,
  - (iv) a securities dealer or insurance company controlled by the corporation,
  - (v) an entity controlled by a securities dealer or insurance company controlled by the corporation, or
  - (vi) a real estate entity described in subparagraph i or ii of paragraph 3 of subsection 150 (1);
- (b) shares or ownership interests beneficially owned by a third party in,
  - (i) an entity that beneficially owns real estate in conjunction with the corporation, a related real estate entity of the corporation or a designated entity controlled by the corporation, or
  - (ii) a related real estate entity of the corporation.

(2) The value of the interests of a provincial corporation in real estate is,

- (a) in respect of a loan or debt obligation that is secured by real estate referred to in clause (1) (a), the lesser of,
  - (i) the net realizable value of the third party's interest in the real estate at the time that the security interest was given, and
  - (ii) either,
    - (A) if the loan was made by the corporation or a designated entity controlled by the corporation or the debt obligation is beneficially owned by the corporation or a designated entity controlled by the corporation, the book value of the loan or debt obligation, or

- (B) if the debt obligation is guaranteed by the corporation or a designated entity controlled by the corporation, the face value of the guarantee,

less the total net realizable value of any other security interests that were given for the loan or debt obligation;

- (b) in respect of a loan or debt obligation that is secured by shares or ownership interests beneficially owned by a third party in an entity referred to in subclause (1) (b) (i), the lesser of,
    - (i) the net realizable value of the third party's interest in those shares or ownership interests at the time that the security interest was given, and
    - (ii) either,
      - (A) if the loan was made by the corporation or a designated entity controlled by the corporation or the debt obligation is beneficially owned by the corporation or a designated entity controlled by the corporation, the book value of the loan or debt obligation, or
      - (B) if the debt obligation is guaranteed by the corporation or a designated entity controlled by the corporation, the face value of the guarantee,
- less any amount by which,
- (C) the total net realizable value of all security interests that were given for the loan or debt obligation, exceeds,
  - (D) the product obtained by multiplying the net realizable value of the entity's interest in the real estate referred to in subclause (1) (b) (i) by the percentage that the shares or ownership interests that are given as the security interest constitute of the total outstanding shares or ownership interests in the entity; and
- (c) in respect of a loan or debt obligation that is secured by shares or ownership interests beneficially owned by a third party in a related real estate entity referred to in subclause (1) (b) (ii), the lesser of,
    - (i) the net realizable value of the third party's interest in those shares or ownership interests at the time that the security interest was given, and
    - (ii) either,
      - (A) if the loan was made by the corporation or a designated entity controlled by the corporation or the debt obligation is beneficially owned by the corporation or a designated entity controlled by the corporation, the book value of the loan or debt obligation, or
      - (B) if the debt obligation is guaranteed by the corporation or a designated entity controlled by the corporation, the face value of the guarantee,
- less the total net realizable value of any other security interests that were given for the loan or debt obligation.

#### OTHER INTERESTS

**152.** (1) The following are interests of a provincial corporation in real estate:

- 1. A guarantee given by the corporation, or by a designated entity controlled by the corporation, to an entity other than the

corporation or the designated entity for the purpose of completing the development of real estate that is beneficially owned by,

- i. the corporation,
- ii. the designated entity controlled by the corporation, or
- iii. a related real estate entity of the corporation.

2. An agreement made by the corporation, or by a designated entity controlled by the corporation, to support a third party's cost of operating or financing real estate that is beneficially owned by,

- i. the corporation,
- ii. the designated entity controlled by the corporation, or
- iii. a related real estate entity of the corporation.

(2) The value of the interests of a provincial corporation in real estate is,

- (a) in respect of a guarantee referred to in paragraph 1 of subsection (1), the estimated cost of completing the development of the real estate;
- (b) in respect of an agreement referred to in paragraph 2 of subsection (1), the amount of any funds advanced by the corporation, or by a designated entity controlled by the corporation, pursuant to the agreement.

**33. Schedules I and II of the Regulation are revoked.**

**34. Forms 1 to 5 of the Regulation are revoked.**

**35. This Regulation comes into force on December 1, 1997.**

49/97

**ONTARIO REGULATION 414/97**  
made under the  
**CREDIT UNIONS AND CAISSES POPULAIRES ACT, 1994**

Made: November 19, 1997  
Filed: November 20, 1997

Amending O. Reg. 76/95  
(Credit Unions)

Note: Ontario Regulation 76/95 has not previously been amended.

**1. The definition of "authorized types of insurance" in section 28 of Ontario Regulation 76/95 is revoked and the following substituted:**

"authorized types of insurance" means the types of insurance listed in subsection 34 (1). ("types d'assurance autorisés")

**2. Section 41 of the Regulation is revoked and the following substituted:**

**41. (1)** A credit union shall not promote an insurance company, agent or broker unless,

- (a) the company, agent or broker deals only in authorized types of insurance; or
- (b) the promotion takes place outside the head office and any other office of the credit union, and is directed to,
  - (i) all of the holders of credit cards or charge cards issued by the credit union to whom statements of account are mailed regularly,
  - (ii) all of the credit union members who are individuals and to whom statements of account are mailed regularly, or
  - (iii) the general public.

(2) A credit union shall not promote an insurance policy of an insurance company, agent or broker, or a service provided in respect of such a policy, unless,

**RÈGLEMENT DE L'ONTARIO 414/97**  
pris en application de la  
**LOI DE 1994 SUR LES CAISSES POPULAIRES**  
**ET LES CREDIT UNIONS**

pris le 19 novembre 1997  
déposé le 20 novembre 1997

modifiant le Règl. de l'Ont. 76/95  
(Caisses populaires)

Remarque : Le Règlement de l'Ontario 76/95 n'a pas été modifié antérieurement.

**1. La définition de «types d'assurance autorisés» à l'article 28 du Règlement de l'Ontario 76/95 est abrogée et remplacée par ce qui suit :**

«types d'assurance autorisés» Types d'assurance énumérés au paragraphe 34 (1). («authorized types of insurance»)

**2. L'article 41 du Règlement est abrogé et remplacé par ce qui suit :**

**41. (1)** La caisse ne doit pas faire la promotion d'une compagnie d'assurance ou d'un agent ou d'un courtier d'assurances sauf si, selon le cas :

- a) la compagnie, l'agent ou le courtier ne fait le commerce que de types d'assurance autorisés;
- b) la promotion s'effectue à l'extérieur du siège social et de tout autre bureau de la caisse et s'adresse :
  - (i) soit à tous les titulaires de cartes de crédit délivrées par la caisse qui reçoivent régulièrement par la poste un relevé de compte,
  - (ii) soit à tous les sociétaires de la caisse qui sont des personnes physiques et qui reçoivent régulièrement par la poste un relevé de compte,
  - (iii) soit au grand public.

(2) La caisse ne doit pas faire la promotion d'une police d'assurance offerte par une compagnie d'assurance ou un agent ou un courtier d'assurances ni d'un service se rapportant à une telle police sauf si, selon le cas :

- (a) the policy is of an authorized type of insurance or the service is in respect of such a policy;
  - (b) the policy is to be provided by a corporation without share capital (other than a mutual insurance company or a fraternal benefit society) that carries on business without pecuniary gain to its members and the policy provides insurance to an individual in respect of the risks covered by travel insurance;
  - (c) the service is in respect of a policy described in clause (b); or
  - (d) the promotion takes place outside the head office of the credit union and any other office of the credit union, and is directed to,
    - (i) all of the holders of credit cards or charge cards issued by the credit union to whom statements of account are mailed regularly,
    - (ii) all of the credit union members who are individuals and to whom statements of account are mailed regularly, or
    - (iii) the general public.
- (3) A credit union may exclude the following persons from a promotion described in clause (1) (b) or (2) (d):
1. Persons in respect of whom the promotion would contravene an Act of Parliament or of the legislature of a province.
  2. Persons who have notified the credit union in writing that they do not wish to receive promotional material from the credit union.
  3. Persons who hold a credit card or charge card issued by the credit union in respect of which the account is not in good standing.

49/97

**ONTARIO REGULATION 415/97**  
made under the  
**PENSION BENEFITS ACT**

Made: November 19, 1997  
Filed: November 20, 1997

Amending Reg. 909 of R.R.O. 1990  
(General)

Note: Since January 1, 1997, Regulation 909 has been amended by Ontario Regulation 286/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

1. Subsection 8 (3) of Regulation 909 of the Revised Regulations of Ontario, 1990 is amended by striking out "December 31, 1997" at the end and substituting "December 31, 1998".

49/97

**RÈGLEMENT DE L'ONTARIO 415/97**  
pris en application de la  
**LOI SUR LES RÉGIMES DE RETRAITE**

pris le 19 novembre 1997  
déposé le 20 novembre 1997

modifiant le Règl. de l'Ont. 909 des R.R.O. de 1990  
(Dispositions générales)

Remarque : Depuis le 1<sup>er</sup> janvier 1997, le Règlement 909 a été modifié par le Règlement de l'Ontario 286/97. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

1. Le paragraphe 8 (3) du Règlement 909 des Règlements refondus de l'Ontario de 1990 est modifié par substitution de «31 décembre 1998» à «31 décembre 1997» à la fin.



**ONTARIO REGULATION 416/97**made under the  
**HIGHWAY TRAFFIC ACT**

Made: November 20, 1997

Filed: November 20, 1997

Amending O. Reg. 340/94  
(Drivers' Licences)

Note: Since January 1, 1997, Ontario Regulation 340/94 has been amended by Ontario Regulations 149/97 and 251/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Section 24 of Ontario Regulation 340/94 is amended by adding the following subsection:**

(1.1) Despite subsection (1), the term of every temporary licence that, other than by the operation of this subsection, would expire on or after the day that this subsection comes into force is extended for 90 days after the expiry date shown on the licence.

49/97

**ONTARIO REGULATION 417/97**made under the  
**COURTS OF JUSTICE ACT**Made: November 19, 1997  
Approved: November 19, 1997  
Filed: November 21, 1997Amending O. Reg. 223/97  
(Rules for the Toronto Region E-Filing Pilot Project)

Note: Ontario Regulation 223/97 has not previously been amended.

**1. (1) Subrule 3.01 (1) of Ontario Regulation 223/97 is amended,**

(a) by striking out paragraph 6; and

(b) by adding the following paragraphs:

24. Certificate of litigation guardian for plaintiff.

25. Certificate of litigation guardian for defendant.

(2) Subrule 3.01 (2) is amended by striking out "Subject to subrules (3) and (4)" at the beginning and substituting "Subject to subrules (3), (4) and (5)".

**(3) Rule 3.01 is amended by adding the following subrules:**

(5) The certificate of litigation guardian for a plaintiff template (Form 3) and the certificate of litigation guardian for a defendant template (Form 4) shall be used to generate the certificates referred to in paragraphs 24 and 25 of subrule (1), respectively, and, when filed in accordance with these rules, the certificates shall be deemed to be the affidavits of the litigation guardians referred to in subrule 7.02 (2) and subrule 7.03 (2.2) of the Rules of Civil Procedure, respectively.

**Notice of Defence**

(6) A defendant whose lawyer is a participant shall not file a notice of defence under rule 18.03 or rule 77.09 of the Rules of Civil Procedure and shall file a statement of defence.

**2. The Regulation is amended by adding the following Forms:**

**RÈGLEMENT DE L'ONTARIO 417/97**  
pris en application de la  
**LOI SUR LES TRIBUNAUX JUDICIAIRES**pris le 19 novembre 1997  
approuvé le 19 novembre 1997  
déposé le 21 novembre 1997modifiant le Règl. de l'Ont. 223/97  
(Règles du projet pilote de dépôt électronique  
de la région de Toronto)

Remarque : Le Règlement de l'Ontario 223/97 n'a pas été modifié antérieurement.

**1. (1) Le paragraphe 3.01 (1) du Règlement de l'Ontario 223/97 est modifié :**

a) par suppression de la disposition 6;

b) par adjonction des dispositions suivantes :

24. Certificat de tuteur à l'instance du demandeur.

25. Certificat de tuteur à l'instance du défendeur.

(2) Le paragraphe 3.01 (2) est modifié par substitution de «Sous réserve des paragraphes (3), (4) et (5)» à «Sous réserve des paragraphes (3) et (4)» au début du paragraphe.

**(3) La règle 3.01 est modifiée par adjonction des paragraphes suivants :**

(5) La formule électronique de certificat de tuteur à l'instance d'un demandeur (formule 3) et la formule électronique de certificat de tuteur à l'instance d'un défendeur (formule 4) sont utilisées pour produire les certificats visés aux dispositions 24 et 25 du paragraphe (1), respectivement. Lorsqu'ils sont déposés conformément à ces règles, les certificats sont réputés être les affidavits des tuteurs à l'instance visés aux paragraphes 7.02 (2) et 7.03 (2.2) des Règles de procédure civile, respectivement.

**Avis de défense**

(6) Le défendeur dont l'avocat est un participant ne doit pas déposer d'avis de défense aux termes de la règle 18.03 ou de la règle 77.09 des Règles de procédure civile mais doit déposer une défense.

**2. Le Règlement est modifié par adjonction des formules suivantes :**

## Form 3

## Courts of Justice Act

## Ontario Court (General Division)

## CERTIFICATE OF LITIGATION GUARDIAN FOR PLAINTIFF TEMPLATE

**This process is subject to the Rules for  
Toronto Region E-Filing Pilot Project**

Case Number Identification Box

**Original OR Subsequent Proceedings Number:**

**Original OR Subsequent E-File Reference Number:**

**Filing Party Lawyer** (*complete applicable details*)

**LSUC#:**

**Lawyer:**

**Law Firm:**

**Address:**

**Province:**

**Phone:**

**Court e-mail:**

**City:**

**Postal Code:**

**Fax:**

..... (*name of filing party's lawyer*) certify that I have in my possession the original affidavit of ..... (*name*), the person proposing to be litigation guardian, in which it is deposed that:

1. The affiant consents to act as litigation guardian in this proceeding for ..... (*name person under disability*).
2. The affiant has given me written authority to act as lawyer for the plaintiff in this proceeding.
3. The affiant has the following evidence of the nature and extent of the disability of the person under disability (*set out details of evidence*):  
.....  
.....  
.....
4. (*Add the following if person under disability is a minor*) The birth date of the person under disability is: (*dd/mm/yy*).
5. (*If applicable, add the following*) The affiant's relationship to the person under disability is: .....  
.....
6. The affiant has no interest in the proceeding adverse to that of the person under disability.
7. The affiant has been informed that he or she may be personally liable to pay any costs awarded against the affiant or the person under disability.

UPON request of the Court or a party to this proceeding, I ..... (*name of filing party's lawyer*) shall produce the affidavit to the Court or to the party, as the case may be, within five days. I understand that this certificate does not replace the affidavit under subrule 7.02 (2).

## Formule 3

*Loi sur les tribunaux judiciaires*

Cour de l'Ontario (Division générale)

## FORMULE ÉLECTRONIQUE DE CERTIFICAT DE TUTEUR À L'INSTANCE DU DEMANDEUR

**Le présent acte de procédure est assujéti  
aux Règles du projet pilote de dépôt électronique  
de la région de Toronto.**

Numéro de dossier

N° de l'instance initiale OU subséquente :

N° de référence électronique de l'instance initiale OU subséquente :

Avocat(e) de la partie qui effectue le dépôt (*fournir les renseignements pertinents*)

N° de membre du BHC :

Avocat(e) :

Adresse du cabinet :

Province :

Téléphone :

Adresse électronique du tribunal :

Ville :

Code postal :

Télécopieur :

..... (*nom de l'avocat(e) de la partie qui effectue le dépôt*) certifie que j'ai en ma possession l'original de l'affidavit de .....  
(*nom*), soit la personne qui se propose d'agir en qualité de tuteur(trice) à l'instance, lequel affidavit atteste des faits suivants :

1. Le (La) souscripteur(trice) de l'affidavit consent à agir en qualité de tuteur(trice) à l'instance dans l'instance précitée au nom de .....  
(*nommer l'incapable*).
2. Le (La) souscripteur(trice) de l'affidavit m'a donné par écrit le pouvoir d'agir à titre d'avocat du demandeur dans l'instance précitée.
3. Le (La) souscripteur(trice) de l'affidavit détient la preuve suivante de la nature et de l'étendue de l'incapacité de l'incapable (*donner le détail de la preuve*) : .....  
.....  
.....
4. (*Ajouter ce qui suit si l'incapable est un mineur*). La date de naissance de l'incapable est : (*jj/mm/aa*).
5. (*S'il y a lieu, ajouter ce qui suit :*) Le lien du souscripteur (de la souscriptrice) de l'affidavit avec l'incapable est le suivant : .....  
.....
6. Le (La) souscripteur(trice) de l'affidavit n'a, dans l'instance précitée, aucun intérêt opposé à celui de l'incapable.
7. Le (La) souscripteur(trice) de l'affidavit a été informé(e) qu'il (elle) pourrait être tenu(e) personnellement responsable de tous les dépens auxquels lui-même (elle-même) ou l'incapable pourrait être condamné.

SUR demande du tribunal ou d'une partie à l'instance précitée, je ..... (*nom de l'avocat(e) de la partie qui effectue le dépôt*) produirai l'affidavit au tribunal ou à la partie, selon le cas, dans un délai de cinq jours. Je suis au courant du fait que le présent certificat ne remplace pas l'affidavit visé au paragraphe 7.02 (2).



## Form 4

Courts of Justice Act

Ontario Court (General Division)

## CERTIFICATE OF LITIGATION GUARDIAN FOR DEFENDANT TEMPLATE

This process is subject to the Rules for  
Toronto Region E-Filing Pilot Project

Case Number Identification Box

Original OR Subsequent Proceedings Number:

Original OR Subsequent E-File Reference Number:

Filing Party Lawyer (complete applicable details)

LSUC#:

Lawyer:

Law Firm

Address:

Court e-mail:

City:

Postal Code:

Province:

Phone:

Fax:

..... (name of filing party's lawyer) certify that I have in my possession the original affidavit of ..... (name), the person proposing to be litigation guardian, in which it is deposed that:

1. The nature of this proceeding is as follows: .....
2. The cause of action arose on: (dd/mm/yy).
3. The proceeding was commenced on: (dd/mm/yy).
4. The affiant has the following evidence of the service of the originating process on (name of person under disability) (set out details of evidence):  
.....  
.....
5. The affiant has the following evidence of the request for the appointment of a litigation guardian (set out details of evidence):  
.....  
.....
6. The affiant has the following evidence of the nature and extent of the disability of the person under disability (set out details of evidence):  
.....  
.....
7. (Add the following if person under disability is a minor) The birth date of the person under disability is: (dd/mm/yy).
8. The person under disability ordinarily resides in (set out place of ordinary residence): .....
9. (If applicable, add the following) The affiant's relationship to the person under disability is: .....
10. The affiant ordinarily resides in (set out place of ordinary residence): .....
11. The affiant consents to act as litigation guardian in this proceeding.
12. The affiant is the proper person to be appointed litigation guardian for the following reasons: (set out reasons and evidence relied upon):  
.....
13. The affiant has no interest in the proceeding adverse to that of the person under disability.
14. The affiant has been informed that he or she may incur costs that may not be recovered from another party.

UPON request of the Court or a party to this proceeding, I ..... (name of filing party's lawyer) shall produce the affidavit to the Court or to the party, as the case may be, within five days. I understand that this certificate does not replace the affidavit under subrule 7.03 (2.2).

## Formule 4

*Loi sur les tribunaux judiciaires*

Cour de l'Ontario (Division générale)

## FORMULE ÉLECTRONIQUE DE CERTIFICAT DE TUTEUR À L'INSTANCE DU DÉFENDEUR

**Le présent acte de procédure est assujéti  
aux Règles du projet pilote de dépôt électronique  
de la région de Toronto.**

Numéro de dossier

N° de l'instance initiale OU subséquente :

N° de référence électronique de l'instance initiale OU subséquente :

Avocat(e) de la partie qui effectue le dépôt (*fournir les renseignements pertinents*)

N° de membre du BHC :

Adresse électronique du tribunal :

Avocat(e) :

Ville :

Adresse du cabinet :

Code postal :

Province :

Télécopieur :

Téléphone :

..... (*nom de l'avocat(e) de la partie qui effectue le dépôt*) certifie que j'ai en ma possession l'original de l'affidavit de .....  
(*nom*), soit la personne qui se propose d'agir en qualité de tuteur(trice) à l'instance, lequel affidavit atteste des faits suivants :

1. La nature de l'instance précitée est la suivante : .....
2. La cause d'action est née le : (*jj/mm/aa*).
3. L'instance a été introduite le : (*jj/mm/aa*).
4. Le (La) souscripteur(trice) de l'affidavit détient la preuve suivante de la signification de l'acte introductif d'instance à (*nom de l'incapable*)  
(*donner le détail de la preuve*) : .....  
.....
5. Le (La) souscripteur(trice) de l'affidavit détient la preuve suivante de la demande de nomination d'un tuteur ou d'une tutrice à l'instance (*donner le détail de la preuve*) : .....  
.....
6. Le (La) souscripteur(trice) de l'affidavit détient la preuve suivante de la nature et de l'étendue de l'incapacité de l'incapable (*donner le détail de la preuve*) : .....  
.....
7. (*Ajouter ce qui suit si l'incapable est un mineur*). La date de naissance de l'incapable est : (*jj/mm/aa*).
8. L'incapable réside ordinairement à (*indiquer le lieu de résidence ordinaire*) : .....
9. (*S'il y a lieu, ajouter ce qui suit :*) Le lien du souscripteur (de la souscriptrice) de l'affidavit avec l'incapable est le suivant : .....  
.....  
.....
10. Le (La) souscripteur(trice) de l'affidavit réside ordinairement à (*indiquer le lieu de résidence ordinaire*) : .....
11. Le (La) souscripteur(trice) de l'affidavit consent à agir en qualité de tuteur(trice) à l'instance dans l'instance précitée.
12. Le (La) souscripteur(trice) de l'affidavit est une personne apte à être nommée tuteur(trice) à l'instance pour les motifs suivants : (*indiquer les motifs et les éléments de preuve invoqués*) .....  
.....

13. Le (La) souscripteur(trice) de l'affidavit n'a, dans l'instance précitée, aucun intérêt opposé à celui de l'incapable.
14. Le (La) souscripteur(trice) de l'affidavit a été informé(e) qu'il (elle) pourrait ne pas recouvrer d'une autre partie tous les dépens qu'il (elle) a engagés.

SUR demande du tribunal ou d'une partie à l'instance précitée, je . . . . . (*nom de l'avocat(e) de la partie qui effectue le dépôt*) produirai l'affidavit au tribunal ou à la partie, selon le cas, dans un délai de cinq jours. Je suis au courant du fait que le présent certificat ne remplace pas l'affidavit visé au paragraphe 7.03 (2.2).



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## Information

THE ONTARIO GAZETTE is published each Saturday and **advertisements must be received no later than Thursday 4 p.m., 9 days before publication of the issue in which they should appear.**

Advertisements including the names of any signing officers must be typed or written legibly. Advertising rates are: \$21.40 per 25 mm for a single column and \$44.85 per 25 mm for a double column + 7% G.S.T. payable in advance.

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**Cheques or money orders** should be made payable to THE MINISTER OF FINANCE and all correspondence, including address changes, should be mailed to:

THE ONTARIO GAZETTE  
50 Grosvenor Street, Toronto, Ontario M7A 1N8  
Telephone 326-5310  
Toll-Free 1-800-668-9938

## Information

LA GAZETTE DE L'ONTARIO paraît chaque samedi, **et les annonces à y insérer doivent parvenir à ses bureaux le jeudi à 16 h au plus tard, soit au moins neuf jours avant la parution du numéro dans lequel elles figureront.**

Les annonces, ainsi que le nom des signataires autorisés, doivent être dactylographiées ou écrites lisiblement. Les tarifs sont de 21,40 \$ par 25 mm, pour une colonne, et de 44,85 \$ par 25 mm, pour deux colonnes + 7% T.P.S. (payable à l'avance).

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**Les chèques ou mandats** doivent être faits à l'ordre DU MINISTRE DES FINANCES et toute correspondance, y compris les changements d'adresse, doit être adressée à :

LA GAZETTE DE L'ONTARIO  
50, rue Grosvenor, Toronto, (Ontario) M7A 1N8  
Telephone 326-5310  
Appel sans frais 1-800-668-9938



# The Ontario Gazette La Gazette de l'Ontario

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## Parliamentary Notice—Royal Assent Avis parlementaire—sanction royale

### THE PROVINCE OF ONTARIO

Toronto, Friday, November 28, 1997

1:13 p.m.

In the name of Her Majesty the Queen, Her Honour the Lieutenant Governor assented to the following bills in her office: —

- Bill 61** An Act to simplify government processes and to improve efficiency in the Ministry of the Attorney General.  
[S.O. 1997, Chapter 23]
- Bill 96** An Act to Consolidate and Revise the Law with respect to Residential Tenancies.  
[S.O. 1997, Chapter 24]
- Bill 142** An Act to revise the law related to Social Assistance by enacting the Ontario Works Act and the Ontario Disability Support Program Act, by repealing the Family Benefits Act, the Vocational Rehabilitation Services Act and the General Welfare Assistance Act and by amending several other Statutes.  
[S.O. 1997, Chapter 25]
- Bill 148** An Act to deal with matters relating to the establishment of the new City of Toronto.  
[S.O. 1997, Chapter 26]

CLAUDE L. DESROSIERS,  
Clerk of the  
Legislative Assembly.

(6112) 50

### PROVINCE DE L'ONTARIO

Toronto, vendredi 28 novembre 1997

1 h 13

Au nom de Sa Majesté la Reine, Son Honneur la lieutenant-gouverneure a accordé la sanction royale aux projets de loi à son bureau :

- Projet de loi 61** Loi visant à simplifier les processus gouvernementaux et à améliorer l'efficacité au ministère du Procureur général.  
[L.O. 1997, Chapitre 23]
- Projet de loi 96** Loi codifiant et révisant le droit de la location à usage d'habitation.  
[L.O. 1997, Chapitre 24]
- Projet de loi 142** Loi révisant la loi relative à l'aide sociale en édictant la Loi sur le programme Ontario au travail et la Loi sur le Programme ontarien de soutien aux personnes handicapées, en abrogeant la Loi sur les prestations familiales, la Loi sur les services de réadaptation professionnelle et la Loi sur l'aide sociale générale et en modifiant plusieurs autres lois.  
[L.O. 1997, Chapitre 25]
- Projet de loi 148** Loi traitant de questions se rapportant à la constitution de la nouvelle cité de Toronto.  
[L.O. 1997, Chapitre 26]

Le greffier de l'Assemblée législative,  
CLAUDE L. DESROSIERS

(6113) 50

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**Proclamations**

(Great Seal of Ontario)

HILARY M. WESTON

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE OF ONTARIO

PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

PROCLAMATION

PROCLAMATION

*POLICE SERVICES AMENDMENT ACT, 1997**ROAD SAFETY ACT, 1996 (No. 2)*

We, by and with the advice of the Executive Council of Ontario, name Thursday, November 27, 1997 as the day upon which Chapter 8 of the *Police Services Amendment Act, 1997, Statutes of Ontario, 1997*, comes into force.

We, by and with the advice of the Executive Council of Ontario, name Friday, November 28, 1997 as the day upon which sections 1, 2, 4, 5, 6, 7, 8, 9, 10, 16 and 17 of the *Road Safety Act, 1996 (No. 2)* come into force.

WITNESS:

WITNESS:

THE HONOURABLE  
HILARY M. WESTON

THE HONOURABLE  
HILARY M. WESTON

LIEUTENANT GOVERNOR OF OUR  
PROVINCE OF ONTARIO

LIEUTENANT GOVERNOR OF OUR  
PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on November 27, 1997.

GIVEN at Toronto, Ontario, on November 27, 1997.

BY COMMAND

BY COMMAND

CHRIS HODGSON  
Chair of the Management Board of Cabinet

CHRIS HODGSON  
Chair of the Management Board of Cabinet

(Great Seal of Ontario)

(Great Seal of Ontario)

HILARY M. WESTON

HILARY M. WESTON

PROVINCE DE L'ONTARIO

PROVINCE DE L'ONTARIO

*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

PROCLAMATION

PROCLAMATION

*LOI DE 1997 MODIFIANT LA LOI SUR LES SERVICES POLICIERS**LOI DE 1996 SUR LA SÉCURITÉ ROUTIÈRE (n° 2)*

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le jeudi 27 novembre 1997 comme le jour où entre en vigueur la *Loi de 1997 modifiant la Loi sur les services policiers, Lois de l'Ontario de 1997*, chapitre 8.

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le vendredi 28 novembre 1997 comme le jour où entrent en vigueur les articles 1, 2, 4, 5, 6, 7, 8, 9, 10, 16 et 17 de la *Loi de 1996 sur la sécurité routière (n° 2)*.

TÉMOIN :

TÉMOIN :

L'HONORABLE  
HILARY M. WESTON

L'HONORABLE  
HILARY M. WESTON

LIEUTENANTE-GOUVERNEURE DE NOTRE  
PROVINCE DE L'ONTARIO

LIEUTENANTE-GOUVERNEURE DE NOTRE  
PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 27 novembre 1997.

FAIT à Toronto, (Ontario) le 27 novembre 1997.

PAR ORDRE

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement

## Motor Vehicle Transport Act/Truck Transportation Act Loi sur les transports routiers/Loi sur le camionnage

The following are applications for operating licences under the *Truck Transportation Act*, R.S.O. 1990, Chapter T.22, and/or the *Motor Vehicle Transport Act*, 1987, Chapter 35. The applicants have met the fitness requirements pursuant to Section 6 of the *Truck Transportation Act* and/or Section 8(2) of the *Motor Vehicle Transport Act*, 1987 and the provincial transport board and/or the Registrar of Motor Vehicles proposes to issue the licences if no written objection is served on the applicant and filed with the Registrar of Motor Vehicles, within thirty days of this publication.

The following applicants have applied for Authority to offer a transportation service for the carriage of Goods:

On trouvera ci-après la liste des demandes de permis d'exploitation présentées en vertu de la *Loi sur le camionnage*, L.R.O. 1990, chapitre T.22, et/ou la *Loi de 1987 sur les transports routiers*, L.C. 1987, chapitre 35. On a jugé que les personnes ayant présenté ces demandes se conformaient aux critères d'aptitude prévus au paragraphe 8(2) de la *Loi de 1987 sur les transports routiers* et l'office des transports de l'Ontario et/ou le registrateur des véhicules automobiles dans les trente jours suivant la publication des présentes.

Les personnes suivantes ont demandé l'autorisation d'offrir des services de transport de marchandises à destination.

<b>ACIER NOVA LTEE</b> DORVAL, QC	<b>LEBEL, BERTRAND</b> WHITE RIVER, ON	<b>1266455 ONTARIO LIMITED</b> BRAMALEA, ON
<b>BEAUDRY TOWING INC.</b> COLBORNE, ON	<b>LES ENTREPRISES JUFA INC.</b> LORRAINE, QC	<b>158813 CANADA INC.</b> DUPUY, QC
<b>BRIDGE, HOWARD THOMAS</b> GRIMSBY, ON	<b>LES ENTREPRISES WILFRID PROULX INC</b> STE CLOTHILDE DE HORTON, QC	<b>2852-1839 QUEBEC INC</b> BEAUCANTON, QC
<b>CADIEUX, GILLES</b> MASSON-ANGERS, QC	<b>MCASPHALT INDUSTRIES LTD</b> SCARBOROUGH, ON	<b>2871874 CANADA INC</b> MARKHAM, ON
<b>COB-ASH INC.</b> NORTH BRANCH, MI	<b>PATCHETT, GAIL, K.</b> GUELPH, ON	<b>2950-8280 QUEBEC INC.</b> CAP-DE-LA-MADELEINE, QC
<b>E.J.R. RELOAD INC.</b> WINNIPEG, MB	<b>PEARCE, JOHN, W.</b> VINEMOUNT, ON	<b>9020-2185 QUEBEC INC</b> SAWYERVILLE, QC
<b>EAGLE CANADA FREIGHT SERVICES INC.</b> ETOBICOKE, ON	<b>PROHAUL INTERNATIONAL INC.</b> BRADFORD, ON	<b>9039-5955 QUEBEC INC</b> ST-LUC, QC
<b>EISENBERG, NEIL</b> NEPEAN, ON	<b>STUART, RICHARD, B.</b> GRASSIE, ON	<b>9043-6825 QUEBEC INC</b> LAVALTRIE, QC
<b>FUMERTON, DONALD, B.</b> CARLETON PLACE, ON	<b>TRANSPORT E.D.L. INC.</b> ST-GILBERT, QC	<b>9043-8243 QUEBEC INC</b> MONTREAL, QC
<b>GORD'S EXPRESS INC.</b> KESWICK, ON	<b>TRANSPORTS J. ROMPRE INC.</b> STE-ANNE-DE-LA-PERADE, QC	<b>9053-4504 QUEBEC INC</b> TROIS-RIVIERES, QC
<b>JACK MOYER HAULAGE INC.</b> FONTHILL, ON	<b>URSUS TRANSPORT INC</b> MISSISSAUGA, ON	<b>9054-0782 QUEBEC INC</b> BREAKEYVILLE, QC
<b>KENNY, GORDON, J.</b> SEELEYS BAY, ON	<b>1204497 ONTARIO LIMITED</b> ORILLIA, ON	<b>9055-0344 QUEBEC INC</b> SABREVOIS, QC
<b>KRIS DISTRIBUTING LTD</b> TIMMINS, ON	<b>12232072 ONTARIO INC</b> KITCHENER, ON	
<b>LARIVIERE, ROGER, J.</b> SUDBURY, ON	<b>1262890 ONTARIO LTD</b> HANOVER, ON	

J. Greig Beatty  
Chef de Service  
Manager

## ONTARIO HIGHWAY TRANSPORT BOARD

IN THE MATTER OF the *Public Vehicles Act*  
AND IN THE MATTER OF the *Ontario Highway Transport Board Act*  
AND IN THE MATTER OF Lockerby Taxi Inc. **44322-RE**

### NOTICE

The Board is in receipt of an application by Marcel Larochelle pursuant to Sections 10 and 11 of the *Public Vehicles Act*. Marcel Larochelle has satisfied the Board that there are apparent grounds to suspend, can-

cel or impose conditions on Lockerby Taxi Inc.'s operating licence or issue an order described in Section 11(3) of the *Public Vehicles Act*.

All information pertaining to this matter is on file at the Board and can be made available on request (Telephone 416-326-6732)

TAKE NOTICE that the Board will hold a hearing on this matter to determine whether to issue an order described in Section 11(3) of the *Public Vehicles Act*.

The hearing will be held on *Wednesday the 7th day of January, 1998 at 10:00 a.m. at the Regional Municipality of Sudbury, Room C12, 200 Brady Street, Sudbury, Ontario.*



AND FURTHER TAKE NOTICE that should any party to this proceedings not attend at the time and place shown for the hearing, the Board may proceed in their absence and they will not be entitled to any further notice in this proceedings.

AND FURTHER TAKE NOTICE that any interested person (*i.e.* a person who has an economic interest in the outcome of the matter) may file a statement with the Board and serve it on the licensee at least 10 days before the hearing date and pay a fee of \$400.00 payable to the Minister of Finance.

Felix D'Mello  
Board Secretary

IN THE MATTER OF the *Public Vehicles Act*  
AND IN THE MATTER OF the *Ontario Highway Transport Board Act*  
AND IN THE MATTER OF Tom's Taxi and Car Rentals. 45549-RE

#### NOTICE

The Board is in receipt of an application by Ken Miller pursuant to Section 11 of the *Public Vehicles Act*. Ken Miller has satisfied the Board that there are apparent grounds to issue an order described in Section 11(3) of the *Public Vehicles Act* on Tom's Taxi and Car Rentals.

All information pertaining to this matter is on file at the Board and can be made available on request (Telephone 416-326-6732)

TAKE NOTICE that the Board will hold a hearing on this matter to determine whether to issue an order described in Section 11(3) of the *Public Vehicles Act*.

The hearing will be held on *Thursday the 15th day of January, 1998 at 10:00 a.m. at the Ministry of Natural Resources, Prince Street, Sioux Lookout, Ontario.*

AND FURTHER TAKE NOTICE that should any party to this proceedings not attend at the time and place shown for the hearing, the Board may proceed in their absence and they will not be entitled to any further notice in this proceedings.

AND FURTHER TAKE NOTICE that any interested person (*i.e.* a person who has an economic interest in the outcome of the matter) may file a statement with the Board and serve it on the licensee at least 10 days before the hearing date and pay a fee of \$400.00 payable to the Minister of Finance.

Felix D'Mello  
Board Secretary

IN THE MATTER OF the *Public Vehicles Act*  
AND IN THE MATTER OF the *Ontario Highway Transport Board Act*  
AND IN THE MATTER OF Mishkeegogamang Band First Nation. 45575-RE

#### NOTICE

The Board is in receipt of an application by Ken Miller pursuant to Section 11 of the *Public Vehicles Act*. Ken Miller has satisfied the Board that there are apparent grounds to issue an order described in Section 11(3) of the *Public Vehicles Act* on Mishkeegogamang Band First Nation.

All information pertaining to this matter is on file at the Board and can be made available on request (Telephone 416-326-6732)

TAKE NOTICE that the Board will hold a hearing on this matter to determine whether to issue an order described in Section 11(3) of the *Public Vehicles Act*.

The hearing will be held on *Thursday the 15th day of January, 1998 at 10:00 a.m. at the Ministry of Natural Resources, Prince Street, Sioux Lookout, Ontario.*

AND FURTHER TAKE NOTICE that should any party to this proceedings not attend at the time and place shown for the hearing, the Board may proceed in their absence and they will not be entitled to any further notice in this proceedings.

AND FURTHER TAKE NOTICE that any interested person (*i.e.* a person who has an economic interest in the outcome of the matter) may file a statement with the Board and serve it on the licensee at least 10 days before the hearing date and pay a fee of \$400.00 payable to the Minister of Finance.

Felix D'Mello  
Board Secretary

#### NOTICE

**Periodically, temporary applications are filed with the Board. Details of these applications can be made available at anytime to any interested parties by calling (416) 326-6732.**

The following are applications for extra-provincial and public vehicle operating licenses filed under the *Motor Vehicle Transport Act, 1987*, and the *Public Vehicles Act*. All information pertaining to the applicant *i.e.* business plan, supporting evidence, etc. is on file at the Board and is available upon request.

Any interested person who has an economic interest in the outcome of these applications may serve and file an objection within 29 days of this publication. The objector shall:

1. complete a Notice of Objection Form,
2. serve the applicant with the objection,
3. file a copy of the objection and provide proof of service of the objection on the applicant with the Board,
4. pay the appropriate fee.

Serving and filing an objection may be effected by hand delivery, mail, courier or facsimile. Serving means the date received by a party and filing means the date received by the Board.

**LES LIBELLÉS DES DEMANDES PUBLIÉES CI-DESSOUS SONT AUSSI DISPONIBLES EN FRANÇAIS SUR DEMANDE.**

956367 Ontario Inc. 44734-C  
1175 Midland Ave. Kingston, Ont. K7P 2X8

Applies for an amendment to public vehicle operating licence No. PV-4158 as follows:

#### DELETE:

PROVIDED that the licensee be restricted to the use of Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54, each having a maximum seating capacity of (18) passengers exclusive of the driver.

#### SUBSTITUTE:

PROVIDED that the licensee be restricted to the use of public vehicles each having a maximum seating capacity of (30) passengers exclusive of the driver.

**SO THAT AS AMENDED THE LICENCE WILL READ AS FOLLOWS:**

For the transportation of passengers on a chartered trip from points in the Counties of Frontenac, Lennox and Addington.

PROVIDED that the licensee be restricted to the use of public vehicles each having a maximum seating capacity of (30) passengers exclusive of the driver.

Felix D'Mello  
Board Secretary  
Secrétaire de la Commission



## Government Notices Respecting Corporations Avis du gouvernement relatifs aux compagnies

### Certificates of Dissolution Certificats de dissolution

NOTICE IS HEREBY GIVEN that a certificate of dissolution under the *Business Corporations Act*, has been endorsed: The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément à la *Loi sur les compagnies*, un certificat de dissolution a été inscrit pour les compagnies suivantes : la date d'entrée en vigueur précède la liste des compagnies visées.

Name of Corporation: Dénomination sociale de la compagnie :	Ontario Corporation Number Numero de la compagnie en Ontario
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<b>1997-11-10</b>	
BRYAN GORDON HOLDINGS LTD. ....	638012
E. LEAT & ASSOCIATES INC. ....	825487
<b>1997-11-14</b>	
HORACE BERNARD CONSTRUCTION LIMITED. ....	248572
<b>1997-11-17</b>	
MURRAY A. HILL LTD. ....	250839
VEISMAN-SMITH PROJECT MANAGEMENT INC. ....	1008179
1005358 ONTARIO LIMITED ....	1005358
<b>1997-11-18</b>	
FRANK DANIELS LIMITED ....	91022
NINE DOG FASHION PROMOTION INC. ....	1211054
<b>1997-11-19</b>	
GREAT LAKES MACHINE AND METAL FABRICATORS LIMITED ....	116765
<b>1997-11-20</b>	
REMGIN DEVELOPMENTS LIMITED ....	261821
<b>1997-11-21</b>	
DOUBLE HARVEST LIMITED ....	1163997
843922 ONTARIO INC. ....	843922
1233614 ONTARIO INC. ....	1233614
<b>1997-11-24</b>	
ARMCORP 4-16 LTD. ....	731451
THOMSON TELEVISION (CANADA) LIMITED ....	373077
TONY COSTAKOS PAINTING CONTRACTOR LIMITED. ....	257102
1180566 ONTARIO LIMITED. ....	1180566
<b>1997-11-25</b>	
BONTAINE ENTERPRISES INC. ....	499802
COMPU-SHOP INC. ....	1232425
HAPAL TRANSPORT INC. ....	1210729
L.C. HOLLIDAY ROAD RUNNER EXPRESS LTD. ....	709583
LOVE TO TRAVEL LTD. ....	870121
OGDEN PROJECTS OF LONDON, LTD. ....	1114334
PANA SHOP INC. ....	1026193
PINE WINDSOR HOLDINGS LTD. ....	882833
S. F. LEPARD HOLDINGS LIMITED ....	474625
THE WATCH SHOP LTD. ....	523418
TRUMP T.V. & ELECTRONICS LTD. ....	973310
YOUNG'S MARINE LIMITED ....	92880
1029837 ONTARIO INC. ....	1029837
<b>1997-11-26</b>	
THE DANCE OF LIFE INC. ....	766419
981105 ONTARIO LIMITED. ....	981105
1095534 ONTARIO INC. ....	1095534
<b>1997-11-27</b>	
REGIONAL PLUS INC. ....	1010429
STONETOWN HOLDINGS LTD. ....	477938
<b>1997-11-28</b>	
EAST MOUNTAIN BROTHERS CORP. ....	1239849
EXCLUSIVE PAINTING & DECORATING LTD. ....	446467
HORSHAM SECURITIES LIMITED ....	450610

Name of Corporation: Dénomination sociale de la compagnie :	Ontario Corporation Number Numero de la compagnie en Ontario
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<b>1997-11-28</b>	
MECI ONE-A INC. ....	946539
MECI ONE-B INC. ....	949655
MECI TWO-A INC. ....	946538
MECI TWO-B INC. ....	605605
PETER N.Y. YUNG CONSULTANTS (CANADA) LTD. ....	1044500

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

50/97

### Cancellation of Certificates of Incorporation (Corporations Tax Act Defaulters) Annulation de certificats de constitution en personne morale (Non-respect de la Loi sur l'imposition des personnes morales)

NOTICE IS HEREBY GIVEN that, under subsection 241 (4) of the *Business Corporations Act*, the Certificates of Incorporation of the corporations named hereunder have been cancelled by an order dated 17 November 1997 for default in complying with the provisions of the *Corporations Tax Act*, and the said corporations have been dissolved on that date.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément au paragraphe 241(4) de la *Loi sur les compagnies*, les certificats de constitution en personne morale des compagnies dont les noms apparaissent ci-dessous ont été annulés par décision datée du 17 novembre 1997 pour non-respect des dispositions de la *Loi sur l'imposition des personnes morales* et que la dissolution des compagnies concernées prend effet à la date susmentionnée :

Name of Corporation	Ontario Corporation Number Numéro de la compagnie en Ontario
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THE C.J. TRAVERS GROUP LIMITED. ....	1020206
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CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

50/97

### Co-operative Corporations Act (Certificates of Incorporation Issued) Loi sur les sociétés coopératives (Certificats de constitution délivrés)

NOTICE IS HEREBY GIVEN that, under the *Co-operative Corporations Act*, a certificate of Incorporation has been issued to:

AVIS EST PAR LES PRÉSENTES DONNÉ qu'en vertu de la *Loi sur les sociétés coopératives* un certificat de constitution a été délivré à :

Name of Corporation and Head Office:  
Nom de la compagnie et siège social :

1997-10-28

Paddler Co-operative Inc., Palmer Rapids

1997-11-7

Presqu Shore Landing Yacht Club & Marina

Co-operative Corporation, Brighton

JOHN HARPER,  
Director,  
Credit Unions and  
Co-operatives Services Branch  
Ministry of Finance  
Directeur,  
Direction des caisses populaires  
et des coopératives  
Ministère des finances

50/97

### Co-operative Corporations Act (Certificates of Amendment of Articles Issued) Loi sur les sociétés coopératives (Certificats de modification de statut)

NOTICE IS HEREBY GIVEN that, under the *Co-operative Corporations Act*, amendment to article have been effected as follows:

AVIS EST PAR LA PRÉSENTE DONNÉ qu'en vertu de la *Loi sur les sociétés coopératives* la modification suivante a été apportée au statut de la compagnie mentionnée ci-dessous :

Date of Incorporation:	Name of Co-operative:	Effective Date
Date de constitution :	Nom de la Coopérative :	Date d'entrée en vigueur
1939-6-2	The St. Albert Co-operative Cheese Manufacturing Association	1997-10-28

JOHN HARPER,  
Director,  
Credit Unions and  
Co-operatives Services Branch  
Ministry of Finance  
Directeur,  
Direction des caisses populaires  
et des coopératives  
Ministère des finances

50/97

### Loan and Trust Corporations Act, R.S.O. 1990 Loi sur les sociétés de prêt et de fiducie, L.R.O. 1990

#### PUBLIC NOTICE

NOTICE IS HEREBY GIVEN that the registration of The Bankers' Trust Company with its head Office in Montreal, Quebec, has been revoked at the request of the corporation pursuant to section 36 of the *Loan and Trust Corporations Act*, R.S.O. c.L.25 effective October 27, 1997.

D. ROSS PEEBLES,  
Superintendent of Deposit Institutions.

(6115) 50

## Municipal Act Loi sur les municipalités

ORDER MADE UNDER THE  
*MUNICIPAL ACT* R.S.O. 1990, c. M.45

#### ORDER

**WHEREAS** subsection 25.2 of the *Municipal Act* authorizes a municipality or local body in a locality to make a restructuring proposal to restructure municipalities;

**AND WHEREAS** the restructuring proposal submitted by The Corporation of the County of Wellington and its restructuring constituent municipalities meets the requirements of section 25.2 of the *Municipal Act*;

**NOW THEREFORE**, under subsection 25.2 (4) of the *Municipal Act*, the Minister of Municipal Affairs and Housing orders as follows:

#### 1. Definitions - In this Order,

"county" means The Corporation of the County of Wellington;

"former municipality" means The Corporation of the Town of Palmerston, The Corporation of the Town of Harriston, The Corporation of the Township of Minto, The Corporation of the Village of Clifford, The Corporation of the Town of Mount Forest, The Corporation of the Village of Arthur, The Corporation of the Township of Arthur, The Corporation of the Township of West Luther, The Corporation of the Town of Fergus, The Corporation of the Village of Elora, The Corporation of the Township of Pilkington, The Corporation of the Township of Nichol, The Corporation of the Township of West Garafraxa, The Corporation of the Township of Eramosa, The Corporation of the Township of Guelph, The Corporation of the Township of Mapleton as established in the Minister's Order dated June 12, 1997, and The Corporation of the Township of Maryborough, as they existed prior to January 1, 1999;

"new municipality" means The Corporation of the Town of Minto, The Corporation of the Township of Mount Forest/Arthur/West Luther/Arthur, The Corporation of the Township of Centre Wellington, The Corporation of the Township of Guelph/Eramosa and The Corporation of the Township of Mapleton, as established on January 1, 1999 under this Order;

"Town of Erin" means The Corporation of the Town of Erin;

"Township of Puslinch" means The Corporation of the Township of Puslinch; and

"local board" means a local board as defined in section 1 of Ontario Regulation 143/96.

#### 2. Municipal Restructuring:

(1) The Corporation of the Town of Minto - On January 1, 1999, The Corporation of the Town of Palmerston, The Corporation of the Town of Harriston, The Corporation of the Township of Minto and The Corporation of the Village of Clifford are amalgamated as a new Town to be named The Corporation of the Town of Minto, as described in Schedule G.

(2) The Corporation of the Town of Erin - On January 1, 1999, the portion of The Corporation of the Township of West Garafraxa described in Schedule C is annexed to The Corporation of the Town of Erin, as established in the Minister's Order, dated June 12, 1997, and which comes into effect on January 1, 1998.

(3) The Corporation of the Township of Mount Forest/Arthur/West Luther/Arthur -

(3) (a) On January 1, 1999, the portion of The Corporation of the Township of Mapleton, as established in the Minister's Order dated June 12, 1997, described in (2) (c) of Schedule E is annexed to The Corporation of the Village of Arthur.



(3) (b) On January 1, 1999, the portion of The Corporation of the Township of West Garafraxa described in (5) (b) of Schedule D is annexed to The Corporation of the Township of West Luther.

(3) (c) For the purposes of this Order, the annexation on January 1, 1999 of the lands described in (2) (c) of Schedule E and (5) (b) of Schedule D from the Township of Mapleton by the Village of Arthur and from the Township of West Garafraxa by the Township of West Luther respectively, as provided for in paragraphs (a) and (b), shall be deemed to have occurred prior to the amalgamation provided for in paragraph (d).

(3) (d) On January 1, 1999, The Corporation of the Town of Mount Forest, The Corporation of the Village of Arthur, The Corporation of the Township of Arthur, and The Corporation of the Township of West Luther are amalgamated as a new Township to be named The Corporation of the Township of Mount Forest/Arthur/West Luther/Arthur, as described in Schedule F.

(4) The Corporation of the Township of Centre Wellington -

(4) (a) On January 1, 1999, the portion of The Corporation of the Township of Eramosa described in (2) (b) of Schedule B is annexed to The Corporation of the Township of West Garafraxa.

(4) (b) For the purposes of this Order, the annexation on January 1, 1999 of the lands described in Schedule B from the Township of Eramosa by the Township of West Garafraxa, as provided for in paragraph (a), shall be deemed to have occurred prior to the amalgamation provided for in paragraph (c).

(4) (c) On January 1, 1999, The Corporation of the Town of Fergus, The Corporation of the Village of Elora, The Corporation of the Township of Pilkington, save and except that portion being annexed to the Township of Guelph as described in Schedule B, and save and except that portion described in (3) (b) of Schedule D which is being annexed to the Township of Mapleton as established in the Minister's Order dated June 12, 1997, The Corporation of the Township of Nichol, save and except that portion being annexed to the Township of Guelph as described in Schedule B, and save and except that portion described in (4) (b) of Schedule D which is being annexed to the Township of Mapleton as established in the Minister's Order dated June 12, 1997, and The Corporation of the Township of West Garafraxa, save and except that portion being annexed to the Township of West Luther as described in (5) (b) of Schedule D, and save and except that portion described in Schedule C which is being annexed to the Town of Erin as established in the Minister's Order dated June 12, 1997, are amalgamated as a new Township to be named The Corporation of the Township of Centre Wellington, as described in Schedule D.

(5) The Corporation of the Township of Guelph/Eramosa -

(5) (a) On January 1, 1999 the portion of The Corporation of the Township of Puslinch described in (1) (a) of Schedule A is annexed to The Corporation of the Township of Eramosa.

(5) (b) On January 1, 1999 the portion of The Corporation of the Township of Pilkington described in (1) (a) of Schedule B is annexed to The Corporation of the Township of Guelph.

(5) (c) On January 1, 1999 the portion of The Corporation of the Township of Nichol described in (1) (b) of Schedule B is annexed to The Corporation of the Township of Guelph.

(5) (d) For the purposes of this Order, the annexation on January 1, 1999 of the lands described in Schedule A from the Township of Puslinch by the Township of Eramosa, as provided for in paragraph (a), shall be deemed to have occurred prior to the amalgamation provided for in paragraph (f).

(5) (e) For the purposes of this Order, the annexation on January 1, 1999 of the lands described in (1) (a) and (1) (b) of Schedule B from the Township of Pilkington and from the Township of Nichol respectively by the Township of Guelph, as provided for in paragraphs (b) and (c), shall be deemed to have occurred prior to the amalgamation provided for in paragraph (f).

(5) (f) On January 1, 1999, The Corporation of the Township of Guelph and The Corporation of the Township of Eramosa, save and except that portion being annexed to the Township of West Garafraxa as described in (2) (b) of Schedule B, are amalgamated as a new Township to be named The Corporation of the Township of Guelph/Eramosa, as described in Schedule B.

(6) The Corporation of the Township of Mapleton -

(6) (a) On January 1, 1999 the portion of The Corporation of the Township of Pilkington described in (3) (b) of Schedule D is annexed to The Corporation of the Township of Mapleton, as established in the Minister's Order dated June 12, 1997, and which comes into effect on January 1, 1998.

(6) (b) On January 1, 1999 the portion of The Corporation of the Township of Nichol described in (4) (b) of Schedule D is annexed to The Corporation of the Township of Mapleton, as established in the Minister's Order dated June 12, 1997, and which comes into effect on January 1, 1998.

(6) (c) For the purposes of this Order, the annexation on January 1, 1999 of the lands described in (3) (b) and (4) (b) of Schedule D from the Township of Pilkington and from the Township of Nichol respectively by the Township of Mapleton, as provided for in paragraphs (a) and (b), shall be deemed to have occurred prior to the amalgamation provided for in paragraph (d).

(6) (d) On January 1, 1999, The Corporation of the Township of Mapleton, save and except that portion described in (2) (c) of Schedule E which is being annexed to the Village of Arthur, and The Corporation of the Township of Maryborough are amalgamated as a new Township to be named The Corporation of the Township of Mapleton, as described in Schedule E.

(7) The Corporation of the Township of Puslinch - The Corporation of the Township of Puslinch, as described in Schedule A, shall maintain its name and status as a municipality within the County of Wellington

### **3. Procedure to Change the Name or Status of a New Municipality :**

(1) The name of a new municipality as set out in this Order may be changed in 1999 upon a request to the Minister made by the council of the new municipality following public consultation and the adoption of a resolution by the new municipality approving the new name.

(2) The status of a new municipality as set out in this Order may be changed in 1999 upon a request to the Minister made by the council of the new municipality following public consultation and the adoption of a resolution by the new municipality approving the new status.

### **4. Interim Municipal Council Elections:**

(1) On November 9, 1998 a special election shall be held in accordance with section 65 of the *Municipal Elections Act, 1996* to elect the members of the interim councils of the new municipalities.

(2) For the purposes of subsection 65 (4) of the *Municipal Elections Act, 1996* the clerk responsible for conducting the special municipal election for a new municipality shall fix nomination day for the election to a date not later than October 9, 1998.

(3) The 1998 special municipal election shall be conducted as if the restructuring under section 2 of this Order had already occurred and in accordance with the provisions in section 9 of this Order.

(4) (a) Pursuant to the *Municipal Elections Act, 1996*, the clerk of the Town of Harriston shall be responsible for conducting the 1998 special municipal election for the new Town of Minto.

(4) (b) Pursuant to the *Municipal Elections Act, 1996*, the council of the Town of Harriston shall be deemed to be the council of the new Town of Minto for the purposes of the 1998 special municipal election.



(5) (a) Pursuant to the *Municipal Elections Act, 1996*, the clerk of the Town of Mount Forest shall be responsible for conducting the 1998 special municipal election for the new Township of Mount Forest/Arthur/West Luther/Arthur.

(5) (b) Pursuant to the *Municipal Elections Act, 1996*, the council of the Town of Mount Forest shall be deemed to be the council of the new Township of Mount Forest/Arthur/West Luther/Arthur for the purposes of the 1998 special municipal election.

(6) (a) Pursuant to the *Municipal Elections Act, 1996*, the clerk of the Town of Fergus shall be responsible for conducting the 1998 special municipal election for the new Township of Centre Wellington.

(6) (b) Pursuant to the *Municipal Elections Act, 1996*, the council of the Town of Fergus shall be deemed to be the council of the new Township of Centre Wellington for the purposes of the 1998 special municipal election.

(7) (a) Pursuant to the *Municipal Elections Act, 1996*, the clerk of the Township of Eramosa shall be responsible for conducting the 1998 special municipal election for the new Township of Guelph/Eramosa.

(7) (b) Pursuant to the *Municipal Elections Act, 1996*, the council of the Township of Eramosa shall be deemed to be the council of the new Township of Guelph/Eramosa for the purposes of the 1998 special municipal election.

(8) (a) Pursuant to the *Municipal Elections Act, 1996*, the clerk of the Township of Mapleton shall be responsible for conducting the 1998 special municipal election for the new Township of Mapleton.

(8) (b) Pursuant to the *Municipal Elections Act, 1996*, the council of the Township of Mapleton shall be deemed to be the council of the new Township of Mapleton for the purposes of the 1998 special municipal election.

(9) This section of the Order does not apply to the Town of Erin or to the Township of Puslinch.

#### 5. Terms of Office:

(1) The council members of the councils of the Township of Puslinch and of the Town of Erin, as established in the Minister's Order dated June 12, 1997, elected at the 1997 regular municipal election and the members of any local boards of these municipalities, shall continue to hold office until and including November 30, 2000 for the Town of Puslinch and for the Town of Erin.

(2) The council members of the councils of the former municipalities elected at the 1997 regular municipal election and the members of any local boards of these former municipalities shall continue to hold office until and including December 31, 1998.

(3) The council members of the interim councils of the new municipalities elected in the 1998 special municipal election shall take office on January 1, 1999 and shall continue to hold office until and including November 30, 2000.

(4) Despite subsection (1), only the head of council of the Town of Erin as established in the Minister's Order dated June 12, 1997, elected at the 1997 regular municipal election, shall continue to sit on County council from January 1, 1999 until and including November 30, 2000 for the Town of Erin.

(5) The head of council of the Township of Puslinch shall continue to sit on County council until and including November 30, 2000.

(6) The County council representatives of the former municipalities shall continue to sit on the council of the County of Wellington until and including December 31, 1998.

(7) The County council representatives of the new municipalities and the County council members elected in the 1998 special municipal election shall take office on January 1, 1999 and shall continue to sit on County council until and including November 30, 2000.

#### 6. Representation, Interim Councils for New Municipalities:

(1) (a) **Composition of Interim Council** - The interim council of the new Town of Minto shall be composed of five (5) members, the head of council, known as the Mayor, and four members of Council.

(1) (b) **Election of Council Members** - The Mayor shall be elected at large and the four members of council shall be elected by ward, with one member to be elected from each ward.

(1) (c) **Number of Votes on Council** - Each member of council shall have one (1) vote.

(1) (d) **County Council Representative from Municipal Council** - The head of council shall sit on County council.

(2) (a) **Composition of Interim Council** - The interim council of new Township of Mount Forest/Arthur/West Luther/Arthur shall be composed of five (5) members, the head of council, known as the Mayor, and four members of council.

(2) (b) **Election of Council Members** - The Mayor shall be elected at large and the four members of council shall be elected by ward, with one member to be elected from each ward.

(2) (c) **Number of Votes on Council** - Each member of council shall have one (1) vote.

(2) (d) **County Council Representative from Municipal Council** - The head of council shall sit on County council.

(3) (a) **Composition of Interim Council** - The interim council of the new Township of Centre Wellington shall be composed of seven (7) members, the head of council, known as the Mayor, and six members of council.

(3) (b) **Election of Council Members** - The Mayor shall be elected at large and the six members of council shall be elected by ward, with one member to be elected from each ward.

(3) (c) **Number of Votes on Council** - Each member of council shall have one (1) vote.

(3) (d) **County Council Representative from Municipal Council** - The head of council shall sit on County council.

(4) (a) **Composition of Interim Council** - The interim council of the new Township of Guelph/Eramosa shall be composed of five (5) members, the head of council, known as the Mayor, and four members of council.

(4) (b) **Election of Council Members** - The Mayor shall be elected at large and the four members of council shall be elected by ward, with one member to be elected from each ward.

(4) (c) **Number of Votes on Council** - Each member of council shall have one (1) vote.

(4) (d) **County Council Representative from Municipal Council** - The head of council shall sit on County council.

(5) (a) **Composition of Interim Council** - The interim council of the new Township of Mapleton shall be composed of five (5) members, the head of council, known as the Mayor, and four members of council.

(5) (b) **Election of Council Members** - The Mayor shall be elected at large and the four members of council shall be elected by ward, with one member to be elected from each ward.

(5) (c) **Number of Votes on Council** - Each member of council shall have one (1) vote.

(5) (d) **County Council Representative from Municipal Council** - The head of council shall sit on County council.

**7. Representation, Interim Council of the Town of Erin:**

(1) **Composition of Interim Council** - The interim council of the Town of Erin shall be composed of five (5) members, the head of council, known as the Mayor, and four members of Council.

(2) **Election of Council Members** - The Mayor and the four members of council shall be elected at large.

(3) **Number of Votes on Council** - Each member of council shall have one (1) vote.

(4) **County Council Representative from Municipal Council** - The head of council shall sit on County council.

**8. Representation, Council of the Township of Puslinch -**

(1) **Composition of Council** - The council of the Township of Puslinch shall continue to be composed of five (5) members, the head of council, known as the Mayor, and four members of council.

(2) **Election of Council Members** - The Mayor and the four members of council shall continue to be elected at large.

(3) **Number of Votes on Council** - Each member of council shall continue to have one (1) vote.

(4) **County Council Representative from Municipal Council** - The head of council shall continue to sit on County council.

**9. Municipal Wards:**

(1) The new Town of Minto shall be divided into four wards as of January 1, 1999, as set out in Schedule H.

(2) The new Township of Mount Forest/Arthur/West Luther/Arthur shall be divided into four wards as of January 1, 1999, as set out in Schedule I.

(3) The new Township of Centre Wellington shall be divided into six wards as of January 1, 1999, as set out in Schedule J.

(4) The new Township of Guelph/Eramosa shall be divided into four wards as of January 1, 1999, as set out in Schedule K.

(5) The new Township of Mapleton shall be divided into four wards as of January 1, 1999, as set out in Schedule L.

**10. Representation, Interim County Council:**

(1) The interim council of the County of Wellington shall, effective January 1, 1999, be composed of sixteen (16) members of council consisting of:

- (a) the Mayor of each new municipality, of the Town of Erin and of the Township of Puslinch;
- (b) nine members of County council which shall be directly elected, with one member to be elected from each County ward;
- (c) a head of council elected by and from among the members referred to in clauses (a) and (b) in accordance with the *Municipal Act*.

(2) The head of council of the County of Wellington shall be elected by and from the members of County council in accordance with the *Municipal Act*.

(3) Each member of the council of the County of Wellington shall have one (1) vote.

**11. County Council Wards:**

(1) The County of Wellington shall be divided into nine (9) County wards as of January 1, 1999, as described in subsection (2).

(2) The nine County wards of the County of Wellington are comprised as follows:

- (a) County Ward #1 is composed of the entire area of the new Town of Minto.
- (b) County Ward #2 is composed of the entire area of the new Township of Mapleton.
- (c) County Ward #3 is composed of all of that portion of the new Township of Mount Forest/Arthur/West Luther/Arthur, as set out in Schedule M.
- (d) County Ward #4 is composed of all of that portion of the new Township of Mount Forest/Arthur/West Luther/Arthur and all of that portion of the new Township of Centre Wellington, as set out in Schedule N.
- (e) County Ward #5 is composed of all of that portion of the new Township of Centre Wellington, as set out in Schedule O.
- (f) County Ward #6 is composed of all of that portion of the new Township of Centre Wellington, as set out in Schedule P.
- (g) County Ward #7 is composed of the entire Township of Puslinch, save and except that portion being annexed by this Order to the Township of Eramosa as described in Schedule A, and all of that portion of the new Township of Guelph/Eramosa, as set out in Schedule Q.
- (h) County Ward #8 is composed of all of that portion of the new Township of Guelph/Eramosa, as set out in Schedule R; and
- (i) County Ward #9 is composed of the entire area of the Town of Erin, as described in Schedule C.

**12. County Council Election:**

(1) Effective January 1, 1999, nine of the sixteen members of the council of the County of Wellington shall be directly elected, with one such council member to be elected for each County ward.

(2) On November 9, 1998 a special election shall be held in accordance with section 65 of the *Municipal Elections Act, 1996* to elect nine County council members, one from each County ward.

(3) For the purposes of subsection 65 (4) of the *Municipal Elections Act, 1996*, the County clerk shall fix nomination day for the election to a date not later than October 9, 1998.

(4) The 1998 special election for County council shall be conducted as if the restructuring of the County's constituent municipalities in section 2 of this Order and the division of the County into nine wards in section 11 of this Order had already occurred.

**13. Local Boards**

**13.1 Cemetery Boards** - The Rockwood Cemetery Board is continued within the new Township of Guelph/Eramosa.

**13.2 Library Boards:**

(1) As of January 1, 1999, the Town of Erin Public Library Board is dissolved.

(2) As of January 1, 1999, the Town of Fergus Public Library Board is dissolved.

(3) As of January 1, 1999, the Township of Eramosa Public Library Board is dissolved.

(4) As of January 1, 1999 the Library Board of the County of Wellington shall take on the responsibilities of the Library Boards dissolved in subsections (1), (2) and (3).



(5) The assets and liabilities of the Library Boards dissolved in subsections (1), (2) and (3) shall be deemed to be the assets and liabilities of the County Library Board.

(6) All by-laws, rules, regulations and fees passed or established by the Library Boards dissolved in subsections (1), (2) and (3) shall be continued and deemed to be the by-laws, rules, regulations and fees of the County Library Board.

### 13.3 Police Service Boards:

(1) (a) As of January 1, 1999, the Police Services Board of the Town of Fergus shall become the new police services board of the new Township of Centre Wellington and shall be known as The Corporation of the Township of Centre Wellington Police Services Board.

(1) (b) The new Police Services Board of the new Township of Centre Wellington shall be composed of members and operated in accordance with the *Police Services Act*.

(2) (a) As of January 1, 1999, the Police Services Board of the Town of Harriston and the Police Services Board of the Town of Palmerston are amalgamated into one new police services board for the new Town of Minto and shall be known as The Corporation of the Town of Minto Police Services Board.

(2) (b) The new Police Services Board of the new Town of Minto shall be composed of members and operated in accordance with the *Police Services Act*.

### 13.4 Public Utility Commissions:

(1) (a) As of January 1, 1999, the Town of Fergus Public Utilities Commission and the Hydro-Electric Commission of the Village of Elora are dissolved.

(1) (b) As of January 1, 1999, a new public utilities power commission, to be called the Hydro-Electric Commission of The Corporation of the Township of Centre Wellington, is established.

(1) (c) The members of the Town of Fergus Public Utilities Commission and of the Hydro-Electric Commission of the Village of Elora shall continue to hold office until and including December 31, 1998.

(1) (d) The Hydro-Electric Commission of The Corporation of the Township of Centre Wellington shall be composed of three members, of whom the head of council shall be one by virtue of office and two commissioners to be appointed by the council of the new Township of Centre Wellington.

(1) (e) The Hydro-Electric Commission of the new Township shall continue to provide hydro-electric services to the ratepayers of the geographic areas of the former Town of Fergus and of the former Village of Elora.

(1) (f) All assets, liabilities, rights and obligations, including employees, of the former Town of Fergus Public Utilities Commission and of the former Hydro-Electric Commission of the Village of Elora that relate to the distribution and supply of electrical power shall become the assets, liabilities, rights and obligations, including employees, of the new Hydro-Electric Commission of The Corporation of the Township of Centre Wellington.

(1) (g) All by-laws and resolutions of the former Town of Fergus Public Utilities Commission and of the former Hydro-Electric Commission of the Village of Elora that relate to the distribution and supply of electrical power shall become the by-laws and resolutions of the new Hydro-Electric Commission of The Corporation of the Township of Centre Wellington and shall remain in force in the geographic areas of the former Town of Fergus and of the former Village of Elora until amended or repealed.

(1) (h) On January 1, 1999, all assets and liabilities, rights and obligations, including employees, of the former Town of Fergus Public Utilities Commission dissolved under subparagraph (1) (a) that relate to the production, treatment, distribution and supply of water shall

become the assets and liabilities, rights and obligations, including employees, of the new Township of Centre Wellington.

(1) (i) On January 1, 1999, all by-laws and resolutions of the former Town of Fergus Public Utilities Commission dissolved under subparagraph (1) (a) that relate to the production, treatment, distribution and supply of water shall become the by-laws and resolutions of the new Township of Centre Wellington and shall remain in force in the geographic area of the former Town of Fergus until amended or repealed.

(1) (j) On January 1, 1999, all assets and liabilities, rights and obligations, including employees, of the former Town of Fergus Public Utilities Commission dissolved under subparagraph (1) (a) that relate to the collection, transmission, treatment or disposal of sewage shall become the assets and liabilities, rights and obligations, including employees, of the new Township of Centre Wellington.

(1) (k) On January 1, 1999, all by-laws and resolutions of the former Town of Fergus Public Utilities Commission dissolved under subparagraph (1) (a) that relate to the collection, transmission, treatment or disposal of sewage shall become the by-laws and resolutions of the new Township of Centre Wellington and shall remain in force in the geographic area of the former Town of Fergus until amended or repealed.

(2) (a) As of January 1, 1999, the Hydro-Electric Commission of the Town of Harriston, the Hydro-Electric Commission of the Village of Clifford and the Town of Palmerston Public Utilities Commission are dissolved.

(2) (b) As of January 1, 1999, a new public utilities power commission, to be called the Hydro-Electric Commission of The Corporation of the Town of Minto, is established.

(2) (c) The members of the Hydro-Electric Commission of the Town of Harriston, of the Hydro-Electric Commission of the Village of Clifford and of the Town of Palmerston Public Utilities Commission shall continue to hold office until and including December 31, 1998.

(2) (d) The Hydro-Electric Commission of The Corporation of the Town of Minto shall be composed of three members, of whom the head of council shall be one by virtue of office and two commissioners to be appointed by the council of the new Town of Minto.

(2) (e) The Hydro-Electric Commission of the new Town shall continue to provide hydro-electric services to the ratepayers of the geographic areas of the former Town of Harriston, of the former Village of Clifford and of the former Town of Palmerston.

(2) (f) All assets, liabilities, rights and obligations, including employees, of the former Hydro-Electric Commission of the Town of Harriston, of the former Hydro-Electric Commission of the Village of Clifford and of the former Town of Palmerston Public Utilities Commission that relate to the distribution and supply of electrical power shall become the assets, liabilities, rights and obligations, including employees, of the new Hydro-Electric Commission of The Corporation of the Town of Minto.

(2) (g) All by-laws and resolutions of the former Hydro-Electric Commission of the Town of Harriston, of the former Hydro-Electric Commission of the Village of Clifford and of the former Town of Palmerston Public Utilities Commission that relate to the distribution and supply of electrical power shall become the by-laws and resolutions of the new Hydro-Electric Commission of The Corporation of the Town of Minto and shall remain in force in the geographic areas of the former Town of Harriston, of the former Village of Clifford and of the former Town of Palmerston until amended or repealed.

(2) (h) On January 1, 1999, all assets and liabilities, rights and obligations, including employees, of the former Town of Palmerston Public Utilities Commission dissolved under subparagraph (2) (a) that relate to the production, treatment, distribution and supply of water shall become the assets and liabilities, rights and obligations, including employees, of the new Town of Minto.

(2) (i) On January 1, 1999, all by-laws and resolutions of the former Town of Palmerston Public Utilities Commission dissolved under sub-



paragraph (2) (a) that relate to the production, treatment, distribution and supply of water shall become the by-laws and resolutions of the new Town of Minto and shall remain in force in the geographic area of the former Town of Palmerston until amended or repealed.

(2) (j) On January 1, 1999, all assets and liabilities, rights and obligations, including employees, of the former Town of Palmerston Public Utilities Commission dissolved under subparagraph (2) (a) that relate to the collection, transmission, treatment or disposal of sewage shall become the assets and liabilities, rights and obligations, including employees, of the new Town of Minto.

(2) (k) On January 1, 1999, all by-laws and resolutions of the former Town of Palmerston Public Utilities Commission dissolved under subparagraph (2) (a) that relate to the collection, transmission, treatment or disposal of sewage shall become the by-laws and resolutions of the new Town of Minto and shall remain in force in the geographic area of the former Town of Palmerston until amended or repealed.

(3) (a) As of January 1, 1999, the Town of Mount Forest Public Utilities Commission and the Village of Arthur Public Utilities Commission are dissolved.

(3) (b) As of January 1, 1999, a new public utilities power commission, to be called the Hydro-Electric Commission of the Corporation of the Township of Mount Forest/Arthur/West Luther/Arthur, is established.

(3) (c) The members of the Town of Mount Forest Public Utilities Commission and of the Village of Arthur Public Utilities Commission shall continue to hold office until and including December 31, 1998.

(3) (d) The Hydro-Electric Commission of The Corporation of the Township of Mount Forest/Arthur/West Luther/Arthur shall be composed of three members, of whom the head of council shall be one by virtue of office and two commissioners to be appointed by the council of the new Township of Mount Forest/Arthur/West Luther/Arthur.

(3) (e) The Hydro-Electric Commission of the new Township shall continue to provide hydro-electric services to the ratepayers of the geographic areas of the former Town of Mount Forest and of the former Village of Arthur.

(3) (f) All assets, liabilities, rights and obligations, including employees, of the former Town of Mount Forest Public Utilities Commission and of the former Village of Arthur Public Utilities Commission that relate to the distribution and supply of electrical power shall become the assets, liabilities, rights and obligations, including employees, of the new Hydro-Electric Commission of The Corporation of the Township of Mount Forest/Arthur/West Luther/Arthur.

(3) (g) All by-laws and resolutions of the former Town of Mount Forest Public Utilities Commission and of the former Village of Arthur Public Utilities Commission that relate to the distribution and supply of electrical power shall become the by-laws and resolutions of the new Hydro-Electric Commission of The Corporation of the Township of Mount Forest/Arthur/West Luther/Arthur and shall remain in force in the geographic areas of the former Town of Mount Forest and of the former Village of Arthur until amended or repealed.

(3) (h) On January 1, 1999, all assets and liabilities, rights and obligations, including employees, of the former Town of Mount Forest Public Utilities Commission and of the former Village of Arthur Public Utilities Commission, dissolved under subparagraph (3) (a), that relate to the production, treatment, distribution and supply of water shall become the assets and liabilities, rights and obligations, including employees, of the new Township of Mount Forest/Arthur/West Luther/Arthur.

(3) (i) On January 1, 1999, all by-laws and resolutions of the former Town of Mount Forest Public Utilities Commission and of the former Village of Arthur Public Utilities Commission, dissolved under subparagraph (3) (a), that relate to the production, treatment, distribution and supply of water shall become the by-laws and resolutions of the new Township of Mount Forest/Arthur/West Luther/Arthur and shall remain in force in the geographic areas of the former Town of Mount Forest and of the former Village of Arthur until amended or repealed.

(3) (j) On January 1, 1999, all assets and liabilities, rights and obligations, including employees, of the former Town of Mount Forest Public Utilities Commission and of the former Village of Arthur Public Utilities Commission, dissolved under subparagraph (3) (a), that relate to the collection, transmission, treatment or disposal of sewage shall become the assets and liabilities, rights and obligations, including employees, of the new Township of Mount Forest/Arthur/West Luther/Arthur.

(3) (k) On January 1, 1999, all by-laws and resolutions of the former Town of Mount Forest Public Utilities Commission and of the former Village of Arthur Public Utilities Commission, dissolved under subparagraph (3) (a), that relate to the collection, transmission, treatment or disposal of sewage shall become the by-laws and resolutions of the new Township of Mount Forest/Arthur/West Luther/Arthur and shall remain in force in the geographic areas of the former Town of Mount Forest and of the former Village of Arthur until amended or repealed.

(4) (a) As of January 1, 1999, the Hydro-Electric Commission of the Township of Mapleton and the Moorefield Hydro-Electric Commission of the Township of Maryborough are dissolved.

(4) (b) As of January 1, 1999, a new public utilities power commission, to be called the Hydro-Electric Commission of The Corporation of Township of Mapleton, is established.

(4) (c) The members of the Hydro-Electric Commission of the Township of Mapleton and of the Moorefield Hydro-Electric Commission of the Township of Maryborough, elected in November, 1997, shall continue to hold office until and including December 31, 1998.

(4) (d) The new Hydro-Electric Commission of The Corporation of the Township of Mapleton shall be composed of three members, of whom the head of council shall be one by virtue of office and two commissioners to be appointed by the council of the new Township of Mapleton.

(4) (e) The Hydro-Electric Commission of the new Township shall continue to provide hydro-electric services to the ratepayers of the geographic area of the former Township of Mapleton and of those parts of the former Township of Maryborough that the hydro-electric commission dissolved under paragraph (a) of this subsection served on December 31, 1998.

(4) (f) All assets, liabilities, rights and obligations, including employees, of the former Hydro-Electric Commission of the Township of Mapleton and of the former Moorefield Hydro-Electric Commission of the Township of Maryborough that relate to the distribution and supply of electrical power shall become the assets, liabilities, rights and obligations, including employees, of the new Hydro-Electric Commission of The Corporation of the Township of Mapleton.

(4) (g) All by-laws and resolutions of the former Hydro-Electric Commission of the Township of Mapleton and of the former Moorefield Hydro-Electric Commission of the Township of Maryborough that relate to the distribution and supply of electrical power shall become the by-laws and resolutions of the new Hydro-Electric Commission of The Corporation of the Township of Mapleton and shall remain in force in the geographic area of the former Township of Mapleton and in those parts of the former Township of Maryborough that the hydro-electric commission dissolved under paragraph (a) of this subsection served on December 31, 1998, until amended or repealed.

(5) (a) As of January 1, 1999, the Rockwood Hydro-Electric Commission of the Township of Eramosa is dissolved.

(5) (b) As of January 1, 1999, a new public utilities power commission, to be called the Hydro-Electric Commission of The Corporation of the Township of Guelph/Eramosa, is established.

(5) (c) The members of the Rockwood Hydro-Electric Commission of the Township of Eramosa shall continue to hold office until and including December 31, 1998.



(5) (d) The Hydro-Electric Commission of The Corporation of the Township of Guelph/Eramosa shall be composed of three members, of whom the head of council shall be one by virtue of office and two commissioners to be appointed by the council of the new Township of Guelph/Eramosa.

(5) (e) The Hydro-Electric Commission of the new Township shall continue to provide hydro-electric services to the ratepayers of those parts of the former Township of Eramosa that the hydro-electric commission dissolved under paragraph (a) of this subsection served on December 31, 1998.

(5) (f) All assets, liabilities, rights and obligations, including employees, of the former Rockwood Hydro-Electric Commission of the Township of Eramosa that relate to the distribution and supply of electrical power shall become the assets, liabilities, rights and obligations, including employees, of the new Hydro-Electric Commission of The Corporation of the Township of Guelph/Eramosa.

(5) (g) All by-laws and resolutions of the former Rockwood Hydro-Electric Commission of the Township of Eramosa that relate to the distribution and supply of electrical power shall become the by-laws and resolutions of the new Hydro-Electric Commission of The Corporation of the Township of Guelph/Eramosa and shall remain in force in those parts of the former Township of Eramosa that the hydro-electric commission dissolved under paragraph (a) of this subsection served on December 31, 1998, until amended or repealed.

#### 14. Financial Issues:

##### 14.1 Taxes -

(1) Any unpaid realty and business taxes, charges or rates levied by the former Township of West Garafraxa for the annexed area described in Schedule C under any legislation prior to annexation shall be payable to the Town of Erin and may be collected in the same manner as if they had been imposed by the Town of Erin.

(2) Any unpaid realty and business taxes, charges or rates levied by the Township of Puslinch for the annexed area described in (1) (a) of Schedule A under any legislation prior to restructuring shall be payable to the Township of Guelph/Eramosa and may be collected in the same manner as if they had been imposed by the Township of Guelph/Eramosa.

(3) Any unpaid realty and business taxes, charges or rates levied by the former municipalities, and for the annexed areas, under any legislation prior to amalgamation, shall be payable to the new municipalities and may be collected in the same manner as if they had been imposed by the new municipalities.

##### 14.2 Tax Phase-In -

(1) Any increase in the rates of taxation for municipal purposes for a new municipality that would occur solely as a result of the restructuring shall be phased-in for the municipal portion of the real property tax bill for a period of five years.

(2) Where there is a phase-in for any increase in the rates of taxation for municipal purposes for a new municipality, as referred to in subsection (1), such increase shall be financed by a reduction in the decrease in the rates of taxation over an equivalent period that would occur solely as a result of the restructuring.

##### 14.3 Area Rating -

(1) The new municipalities shall provide for a special mill rate adjustment upon the rateable property located in the area of the former municipalities and annexed areas to pay for any debts, deficits or surpluses created prior to January 1, 1999, by a former municipality or for an annexed area.

(2) The new Township of Centre Wellington and the new Town of Minto shall provide for a special mill rate adjustment to apply to the taxpayers of a former municipality for the purposes of police services if those services were provided on December 31, 1998.

**14.4 Reserves and Reserve Funds -** The reserves and reserve funds of the former municipalities shall become the reserves and reserve funds of the new municipalities, and, for a period of five years, shall be maintained and used only by the new municipalities for the benefit of the ratepayers of the geographic areas of the former municipalities and only for the purposes for which they were designated on December 31, 1998 by the former municipalities.

#### 15. Continuation of By-laws and Resolutions:

(1) On January 1, 1999, every by-law and resolution of the Township of Puslinch applicable in those parts of the Township of Puslinch being annexed to the former Township of Eramosa under this Order shall be continued and deemed to be a by-law or resolution of the new Township of Guelph/Eramosa and shall remain in force in the annexed area until amended or repealed.

(2) On January 1, 1999, every by-law and resolution of the former Township of West Garafraxa applicable in those parts of the former Township of West Garafraxa being annexed to the Town of Erin under this Order shall be continued and deemed to be a by-law or resolution of the Town of Erin and shall remain in force in the annexed area until amended or repealed.

(3) On January 1, 1999, every by-law and resolution of the former municipalities and their local boards and of the annexed areas of former municipalities shall be continued and deemed to be a by-law or resolution of the new municipalities and their local boards and shall remain in force in the area of the former municipalities or in the annexed areas until amended or repealed.

#### 16. Continuation of Official Plans and Zoning By-laws:

(1) Any by-law of the Township of Puslinch passed under section 34 of the *Planning Act*, or a predecessor of that section, and any official plan of the Township of Puslinch approved under the *Planning Act*, or a predecessor of that *Act*, and which are applicable in those parts of the Township of Puslinch being annexed to the former Township of Eramosa under this Order, shall be deemed to be a by-law or official plan of the new Township of Guelph/Eramosa and shall remain in force in the annexed area until amended or repealed by the new Township of Guelph/Eramosa under the *Planning Act*.

(2) Any by-law of the former Township of West Garafraxa passed under section 34 of the *Planning Act*, or a predecessor of that section, and any official plan of the former Township of West Garafraxa approved under the *Planning Act*, or a predecessor of that *Act*, and which are applicable in those parts of the former Township of West Garafraxa being annexed to the Town of Erin under this Order, shall be deemed to be a by-law or official plan of the Town of Erin and shall remain in force in the annexed area until amended or repealed by the Town of Erin under the *Planning Act*.

(3) Any by-law of a former municipality and of the annexed areas of former municipalities passed under section 34 of the *Planning Act*, or a predecessor of that section, and any official plan of a former municipality and of the annexed areas of former municipalities approved under the *Planning Act*, or a predecessor of that *Act*, shall be deemed to be a by-law or official plan of the new municipality and shall remain in force in the area of the former municipalities or in the annexed areas until amended or repealed by the new municipality under the *Planning Act*.

#### 17. Transitional Provisions:

##### 17.1 Assets and Liabilities -

(1) All assets and liabilities, rights and obligations, including employees, of the former Town of Palmerston, of the former Town of Harriston, of the former Township of Minto and of the former Village of Clifford and their local boards shall become the assets and liabilities, rights and obligations, including employees, of the new Town of Minto and its local boards.

(2) All real property including any highway, street fixture, waterline, easement and restrictive covenant running with the land of the former



Township of West Garafraxa located in the annexed area described in Schedule C vests in the Town of Erin.

(3) (a) All real property including any highway, street fixture, water-line, easement and restrictive covenant running with the land of the former Township of Mapleton located in the annexed area described in (2) (c) of Schedule E vests in the Village of Arthur prior to its restructuring as described in section 2 of this Order.

(3) (b) All real property including any highway, street fixture, water-line, easement and restrictive covenant running with the land of the former Township of West Garafraxa located in the annexed area described in (5) (b) of Schedule D vests in the Township of West Luther prior to its restructuring as described in section 2 of this Order.

(3) (c) All assets and liabilities, rights and obligations, including employees, of the former Town of Mount Forest, of the former Village of Arthur, of the former Township of Arthur and of the former Township of West Luther and their local boards shall become the assets and liabilities, rights and obligations, including employees, of the new Township of Mount Forest/Arthur/West Luther/Arthur and its local boards.

(4) (a) All real property including any highway, street fixture, water-line, easement and restrictive covenant running with the land of the former Township of Eramosa located in the annexed area described in (2) (b) of Schedule B vests in the Township of West Garafraxa prior to its restructuring as described in section 2 of this Order.

(4) (b) All assets and liabilities, rights and obligations, including employees, of the former Town of Fergus, of the former Village of Elora, of the former Township of Pilkington, of the former Township of Nichol and of the former Township of West Garafraxa and their local boards shall become the assets and liabilities, rights and obligations, including employees, of the new Township of Centre Wellington and its local boards.

(5) (a) All real property including any highway, street fixture, water-line, easement and restrictive covenant running with the land of the Township of Puslinch located in the annexed area described in (1) (b) of Schedule A vests in the Township of Eramosa prior to its restructuring as described in section 2 of this Order.

(5) (b) All real property including any highway, street fixture, water-line, easement and restrictive covenant running with the land of the former Township of Pilkington located in the annexed area described in (1) (a) of Schedule B vests in the Township of Guelph prior to its restructuring as described in section 2 of this Order.

(5) (c) All real property including any highway, street fixture, water-line, easement and restrictive covenant running with the land of the former Township of Nichol located in the annexed area described in (1) (b) of Schedule B vests in the Township of Guelph prior to its restructuring as described in section 2 of this Order.

(5) (d) All assets and liabilities, rights and obligations, including employees, of the former Township of Guelph and of the former Township of Eramosa and their local boards shall become the assets and liabilities, rights and obligations, including employees, of the new Township of Guelph/Eramosa and its local boards.

(6) (a) All real property including any highway, street fixture, water-line, easement and restrictive covenant running with the land of the former Township of Pilkington located in the annexed area described in (3) (b) of Schedule D vests in the Township of Mapleton prior to its restructuring as described in section 2 of this Order.

(6) (b) All real property including any highway, street fixture, water-line, easement and restrictive covenant running with the land of the former Township of Nichol located in the annexed area described in (4) (b) of Schedule D vests in the Township of Mapleton prior to its restructuring as described in section 2 of this Order.

(6) (c) All assets and liabilities, rights and obligations, including employees, of the former Township of Mapleton and of the former Township of Maryborough and their local boards shall become the

assets and liabilities, rights and obligations, including employees, of the new Township of Mapleton and its local boards.

## 17.2 Tax Sales in Process -

(1) If tax sales procedures under the *Municipal Tax Sales Act* are currently in process in those parts of the Township of Puslinch being annexed to the former Township of Eramosa under this Order, and the procedures are not completed by January 1, 1999, the new Township of Guelph/Eramosa may continue the procedures.

(2) If tax sales procedures under the *Municipal Tax Sales Act* are currently in process in those parts of the former Township of West Garafraxa being annexed to the Town of Erin under this Order, and the procedures are not completed by January 1, 1999, the Town of Erin may continue the procedures.

(3) If tax sales procedures under the *Municipal Tax Sales Act* are currently in process in the former municipalities or in the annexed areas of former municipalities, and the procedures are not completed by January 1, 1999, the new municipality may continue the procedures.

## 17.3 Enactment or Amendment Procedures Commenced -

(1) If the Township of Puslinch has commenced procedures to enact a by-law under any Act or to adopt an official plan or amendment to it under the *Planning Act*, and that by-law, official plan or amendment applies to those parts of the Township of Puslinch being annexed to the former Township of Eramosa under this Order and is not in force on January 1, 1999, the council of the new Township of Guelph/Eramosa may continue the procedures to enact the by-law or adopt the official plan or amendment to the extent that it applies to the annexed area.

(2) If the former Township of West Garafraxa has commenced procedures to enact a by-law under any Act or to adopt an official plan or amendment to it under the *Planning Act*, and that by-law, official plan or amendment applies to those parts of the former Township of West Garafraxa being annexed to the Town of Erin under this Order and is not in force on January 1, 1999, the council of the Town of Erin may continue the procedures to enact the by-law or adopt the official plan or amendment to the extent that it applies to the annexed area.

(3) If a former municipality has commenced procedures to enact a by-law under any Act or to adopt an official plan or amendment to it under the *Planning Act*, and that by-law, official plan or amendment applies to a former municipality or to the annexed area of a former municipality and is not in force on January 1, 1999, the council of the new municipality may continue the procedures to enact the by-law or adopt the official plan or amendment to the extent that it applies to the former municipality or to the annexed area of a former municipality.

## 17.4 Employees -

(1) Employees of the former municipalities and their local boards shall become the employees of the new municipality and its local boards.

(2) Employees that held non-bargaining unit positions with a former municipality or its local boards and will be employed by the new municipality or its local boards, in a non-bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service.

(3) Employees that held non-bargaining unit positions with a former municipality or its local boards and will be employed by the new municipality or its local boards, in a bargaining unit position, will be credited with seniority at a rate of one hundred percent of the employee's length of service with the former municipality or its local boards as if the position held with the former municipality or its local boards was a bargaining unit position with the new municipality.

## 18. Transition Boards:

(1) On or after December 1, 1997, a Transition Board is established for each of the following new municipalities: the new Town of Minto,



the new Township of Mount Forest/Arthur/West Luther/Arthur, the new Township of Centre Wellington, the new Township of Guelph/Eramosa, and the new Township of Mapleton.

(2) **Body Corporate** - The Boards referred to in subsection (1) are bodies corporate and they cease to exist on January 1, 1999.

(3) **Procedural Rules** - The Boards referred to in subsection (1) shall adopt procedural rules and systems of controls to govern their activities.

(4) **Composition of Transition Boards** - (a) The Transition Board established for the new Town of Minto shall be known as the Town of Minto Transition Board and shall be composed of the heads of council and one other member of council from each of the former municipalities of the Town of Harriston, the Town of Palmerston, the Village of Clifford and the Township of Minto, the latter to be appointed by those councils.

(4) (b) The Transition Board established for the new Township of Mount Forest/Arthur/West Luther/Arthur shall be known as the Township of Mount Forest/Arthur/West Luther/Arthur Transition Board and shall be composed of the heads of council and one other member of council from each of the former municipalities of the Town of Mount Forest, the Village of Arthur, the Township of West Luther and the Township of Arthur, the latter to be appointed by those councils.

(4) (c) The Transition Board established for the new Township of Centre Wellington shall be known as the Township of Centre Wellington Transition Board and shall be composed of the heads of council and one other member of council from each of the former municipalities of the Town of Fergus, the Village of Elora, the Township of Pilkington, the Township of Nichol and the Township of West Garafraxa, the latter to be appointed by those councils.

(4) (d) The Transition Board established for the new Township of Guelph/Eramosa shall be known as the Township of Guelph/Eramosa Transition Board and shall be composed of the heads of council and two other members of council from each of the former municipalities of the Township of Eramosa and the Township of Guelph and one member of council from the former municipality of the Township of Pilkington, the latter five members to be appointed by the respective councils.

(4) (e) The Transition Board established for the new Township of Mapleton shall be known as the Township of Mapleton Transition Board and shall be composed of the members of the Transition Board, as it existed on December 31, 1997, of the former municipality of the Township of Mapleton, and the head of council and one other member of council from the former municipality of the Township of Maryborough, the latter to be appointed by that council.

(4) (f) The Chair of each of the Transition Boards referred to in subsection (1) shall be elected at the first meeting of the Transition Board from among the members of the Transition Board by a majority vote.

(5) **Number of Votes** - Each member of the Transition Board for each of the new municipalities referred to in subsection (1) shall have one vote.

(6) **Powers of the Transition Boards** - (a) Each Transition Board established under subsection (1) may exercise those powers of the former municipalities, and those powers of the new municipalities, which are specified in subsection (7).

(6) (b) Each Board may require that the existing councils of the former municipalities constituting part of the Board shall not exercise certain powers, as specified in this section, without first obtaining the approval of the Board.

(7) **Specified Powers of All Transition Boards** - Each of the Transition Boards may:

- (a) adopt a transition plan for 1998, including a preliminary budget which will enable the Board to establish a fully operational municipal organization which shall on January 1, 1999, become the new municipality;

- (b) conduct studies, research and consultations regarding municipal functions, organizational structures, staffing, standards and performance;
- (c) adopt and establish operational and capital budgets, organizational structures, administrative and management systems, staff positions and job descriptions, policies, adopt by-laws and other documents for the new municipality;
- (d) approve expenditures and prepare and execute contracts and act as the employer where necessary for transitional purposes for each of the former municipalities which constitute part of the Board;
- (e) establish and implement a communication plan for employees and the public regarding the new corporation;
- (f) prepare reports for the consideration of the council of the new municipalities regarding the manner in which municipal services will be provided in the new municipality;
- (g) establish a human resources transition protocol and procedures affecting all aspects of employment and movement of employees of the former municipalities and their local boards to the new municipalities and their local boards;
- (h) exercise the powers of the councils of the former municipalities in all employment and labour matters arising as a result of this Order and the restructuring of the municipalities, including negotiations with trade unions and applications to the Ontario Labour Relations Board;
- (i) exercise the powers of the councils of the former municipalities to offer employees of the former municipalities, local boards or commissions and such other persons deemed necessary to fill positions in the new municipality employment with the new municipality, including inducements to terminate employment, severance allowances, training assistance or such other benefits as are necessary to fill the positions in the new municipality;
- (j) offer employees of the former municipalities employment with the new municipality, as well as negotiate and enter into agreements with employees and groups of employees of the former municipalities and the new municipality;
- (k) require the approval of the Board for all hiring of employees by the former municipalities prior to January 1, 1999;
- (l) issue notices of layoff, or provide for severance or compensation in lieu of notice, or both notice and compensation as required, to employees of the former municipalities;
- (m) purchase, lease or dispose of any assets of each former municipality which constitutes part of that Board or require the approval of the Board before a former municipality purchases, leases or disposes of any asset;
- (n) retain employees and advisors for the purposes of the Transition Board and incur expenses on behalf of the Transition Board and their employees and advisors;
- (o) require the production of financial and other data, information and statistics from each of the former municipalities and their local boards;
- (p) establish electronic or manual information systems, records and books of accounts for the new municipality and for the operation of the Transition Board;
- (q) approve the 1998 budgets of the former municipalities;
- (r) review and approve all financial transactions of the former municipalities in excess of \$10,000 that are not included in the approved municipal operating or capital budgets for 1998;

- (s) establish Transition Board committees as the Board deems necessary; and
- (t) apportion to each former municipality its share of costs and expenditures for transitional activities, specifically for the operation of the Board and the exercise of its powers and for the establishment of new operations for the new municipality, in accordance with subsection (8).

(8) **Costs and Expenditures of the Transition Board** - The costs for the operation of the Board and the exercise of its powers, as specified in this section, and the expenditures necessary to establish new operations for the new municipality shall be paid by the former municipalities on a basis proportionate to the percentage each former municipality's assessment is of the combined taxable assessments of the former municipalities, as delivered for the 1998 taxation year.

**18. Arbitration** - Where a dispute arises with respect to any issue arising out of the interpretation of this Order, any one of the parties may,

- (a) refer the matter in dispute to arbitration in accordance with the provisions of the *Arbitration Act, 1991*; or
- (b) refer the matter to the council of the new municipality subsequent to January 1, 1999, for resolution.

AL LEACH,  
Minister of Municipal Affairs and Housing

Dated at Toronto on November 26, 1997.

#### SCHEDULE A

#### TOWNSHIP OF PUSLINCH

#### (RE-STRUCTURED)

The entire Township of Puslinch, excluding, that portion of the Road Allowance established in the Original Survey along the limit between the Township of Puslinch and the Township of Eramosa, which will be annexed to the Township of Eramosa is more particularly described as follows:

1. The entire Township of Puslinch

#### SAVING AND EXCEPTING

- (a) All that portion of the Township of Puslinch, that consists of a part of the Road Allowance, established in the Original Survey, along the limit between the Township of Puslinch and the Township of Eramosa; known as Jones Baseline; that is bounded on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Puslinch and the Township of Guelph, known as Stone Road East; that is bounded on the Southeast by the Northwest bank of the Eramosa River, that is bounded on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Puslinch and the Township of Eramosa, known as Jones Baseline, and that is bounded on the Southwest by the Southwest limit of the aforesaid Road Allowance.

#### SCHEDULE B

#### TOWNSHIP OF GUELPH-ERAMOSA

#### (RE-STRUCTURED)

The entire Township of Guelph, including the annexation of those lands from the Township of Pilkington, and including the annexation of those lands from the Township of Nichol, will be amalgamated with

the entire Township of Eramosa, including the annexation of those lands from the Township of Puslinch, and excluding those lands that will be annexed to the Township of West Garafraxa, and which is more particularly described as follows:

1. The entire Township of Guelph

#### TOGETHER WITH

- (a) All that portion of the Township of Pilkington, East of the Grand River; that is bounded on the Northwest by the centre line of Sideroad 14; that is bounded on the Southeast by the Southeast limit of the Township of Pilkington, being also the centre line of the Road Allowance, established in the Original Survey along the limit between the Township of Guelph and the Township of Pilkington, a portion of which is known as Wellington Road 51, and a portion of which is known as the Guelph-Pilkington Townline; that is bounded on the South and Southwest by the limit of the Township of Pilkington, being also the South and Southwest limit of the Road Allowance, established in the Original Survey, along the limit between the Township of Pilkington, County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Woolwich, County of Waterloo), known as the Woolwich-Pilkington Townline; that is bounded on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Pilkington and the Township of Nichol, also known as Wellington Road 7.
- (b) All that portion of the Township of Nichol, that is bounded on the Northwest by the centre line of the Road Allowance between Concessions 8 and 9, known as the Township of Nichol Eighth line, and the centre line of Wellington Road 22; that is bounded on the Southeast by the Southeast limit of the Township of Nichol, being the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Nichol and the Township of Guelph, a portion of which is known as Wellington Road 51 and a portion of which is known as the Guelph-Nichol Townline; that is bounded on the Southwest by the centre line of the Road Allowance established in the Original Survey along the boundary between the Township of Pilkington and the Township of Nichol, known also as Wellington Road 7; and that is bounded on the Northeast by the Northeast limit of the Township of Nichol, being the centre line of the Road Allowance established in the Original Survey along the limit between the Township of Nichol and the Township of Eramosa, known as Jones Baseline.

2. The entire Township of Eramosa

#### TOGETHER WITH

- (a) All that portion of the Township of Puslinch, that is referred to in Schedule "A", Clause 1(a).

#### SAVING AND EXCEPTING

- (b) All that portion of the Township of Eramosa being annexed to the Township of West Garafraxa; that is bounded on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Eramosa and the Township of West Garafraxa, known as the Eramosa-Garafraxa Townline; that is bounded on the Southeast by the centre line of a road, established along the limit between Lots 24 and 25, Concession 1, the centre line of Wellington Road 22, the centre line of the Road Allowance between Concessions 1 and 2, known as Wellington Road 29, the centre line of the Road Allowance between Lots 25 and 26, through Concessions 2 to 7, all and inclusive, and the centre line of Wellington Road 22; that is bounded on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Eramosa and the Township of Nichol, known as Jones Baseline; and that is bounded on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Eramosa and the Town of Erin, known as Wellington Road 26.



**SCHEDULE C****TOWN OF ERIN****(RE-STRUCTURED)**

The entire Town of Erin, as established by the Minister's Order, dated June 12th, 1997, which comes into effect on January 1st, 1998, and including those lands to be annexed from the Township of West Garafraxa, and which are more particularly described as follows:

1. The Town of Erin

**TOGETHER WITH**

- (a) All that portion of the Township of West Garafraxa consisting of a part of the Road Allowance, established in the Original Survey, along the limit between the Town of Erin and Township of West Garafraxa; that is bounded on the Northwest by the Northwest limit of the Road Allowance, established in the Original Survey, along the limit between the Town of Erin and the Township of West Garafraxa, known as the Erin-Garafraxa Townline; that is bounded on the Southwest by the Northwesterly extension of the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Eramosa and the Town of Erin, known as Wellington County Road No. 26; and that is bounded on the Northeast by the Southeasterly extension of the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of West Garafraxa, County of Wellington and Township of East Garafraxa, County of Dufferin, known as the East-West Garafraxa Townline.

**SCHEDULE D****TOWNSHIP OF CENTRE WELLINGTON****(RE-STRUCTURED)**

The entire Town of Fergus; the entire Village of Elora; the entire Township of Pilkington, excluding those lands which will be annexed to the Township of Guelph, and excluding those lands which will be annexed to the Township of Mapleton, as established by the Minister's Order, dated June 12th, 1997, which comes into effect on January 1st, 1998; the entire Township of Nichol, excluding those lands which will be annexed to the Township of Guelph, and excluding those lands which will be annexed to the Township of Mapleton and the entire Township of West Garafraxa, including those lands to be annexed from the Township of Eramosa, and excluding those lands that will be annexed to the Township of West Luther and those lands that will be annexed to the Town of Erin, will be amalgamated, and are more particularly described as follows:

1. The entire Town of Fergus
2. The entire Village of Elora
3. The entire Township of Pilkington

**SAVING AND EXCEPTING**

- (a) Those lands referred to in Schedule "B", Clause 1 (a), which are being annexed to the Township of Guelph.
- (b) That portion of the Township of Pilkington being annexed to the Township of Mapleton as established in the Minister's Order dated June 12, 1997, that is more particularly described as follows:

**COMMENCING** at a point in the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Pilkington and the Township of Mapleton, known as Wellington Road 17, where it is intersected by the

Northwesterly extension of the centre line of the Road Allowance between Concessions 1 and 2, West of the Grand River in the Township of Pilkington, known as First Line West.

**THENCE** in a Northeasterly direction, along the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Pilkington, and the Township of Mapleton, being also the centre line of Wellington Road 17, to a point where it is intersected by the Northwesterly extension of the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Pilkington and the Township of Nichol, known as Wellington Road 7.

**THENCE** in a Southeasterly direction, along the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Pilkington and the Township of Nichol, known as Wellington Road 7, to a point therein, the said point being at its intersection with the Northeasterly extension of the Southeast limit of Lot 2, Concession 1, West of the Grand River in the Township of Pilkington.

**THENCE** in a Southwesterly direction, along the Southeast limit of Lot 2, Concession 1, West of the Grand River, in the Township of Pilkington, to a point where it is intersected by the South limit of the original lands of the Canadian National Railway.

**THENCE** in a Northwesterly direction, along the Southerly limit of the Original lands of Canadian National Railway, to its intersection with the limit between Lots 1 and 2, Concession 1, West of the Grand River, Township of Pilkington.

**THENCE** in a Southwesterly direction, along the limit between Lots 1 and 2, Concession 1, West of the Grand River, and its Southwesterly extension to its intersection with the centre line of the Road Allowance between Concessions 1 and 2, West of the Grand River, Township of Pilkington, known as First Line West.

**THENCE** in a Northwesterly direction, along the centre line of the Road Allowance, between Concessions 1 and 2, West of the Grand River, known as First Line West, and its Northwesterly extension to the point of commencement.

4. The entire Township of Nichol

**SAVING AND EXCEPTING**

- (a) All that portion of the Township of Nichol being annexed to the Township of Guelph that is referred to in Schedule "B", Clause 1 (b);
- (b) All that portion of the Township of Nichol being annexed to the Township of Mapleton, as established by Minister's Order, dated June 12th, 1997, which comes into effect on January 1st, 1998; that is bounded on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Mapleton and the Township of Nichol, known as Wellington Road 17; that is bounded on the Southeast by the limit between Lots 1 and 2, Concession 11 in the Township of Nichol; that is bounded on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Pilkington and the Township of Nichol, known also as Wellington Road 7; that is bounded on the Northeast by the limit between Concessions 11 and 12, in the Township of Nichol.

5. The entire Township of West Garafraxa

**TOGETHER WITH**

- (a) That portion of the Township of Eramosa, referred to in Schedule "B", Clause 2(b);

**SAVING AND EXCEPTING**

- (b) All that portion of the Township of West Garafraxa being annexed to the Township of West Luther, that is bounded on the Northwest by the centre line of the Road Allowance, established



in the Original Survey between the Township of West Garafraxa and the Township of West Luther, known as King's Highway No. 9; that is bounded on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 25 and 26, through Concessions 1 to 8, all and inclusive, known as Sideroad 25; that is bounded on the Southwest by the centre line of the Road Allowance established in the Original Survey, along the limit between the Township of Mapleton and the Township of West Garafraxa, known as Jones Baseline; and that is bounded on the Northeast by the centre line of Road Allowance, established in the Original Survey, along the limit between the Township of West Garafraxa, County of Wellington and the Township of East Garafraxa, County of Dufferin, known as the East-West Garafraxa Townline; and

- (c) Those lands being annexed to the Town of Erin as described in Schedule "C", Clause 1(a).

#### SCHEDULE E

##### TOWNSHIP OF MAPLETON

##### (RE-STRUCTURED)

The entire Township of Maryborough will be amalgamated with the entire Township of Mapleton, as established by Minister's Order, dated June 12th, 1997, which comes into effect on January 1st, 1998, including those lands to be annexed from the Township of Pilkington, those lands to be annexed from the Township of Nichol, and excluding those lands from the Township of Mapleton, which will be annexed to the Village of Arthur, which lands are more particularly described as follows:

1. The entire Township of Maryborough
2. The entire Township of Mapleton.

##### TOGETHER WITH

- (a) All that portion of the Township of Pilkington, that is more particularly described in Schedule "D", Clause 3 (b);
- (b) All that portion of the Township of Nichol that is more particularly described in Schedule "D", Clause 4 (b).

##### SAVING AND EXCEPTING

All that portion of the Township of Mapleton which is being annexed to the Village of Arthur, that is more particularly described as follows:

- (c) **COMMENCING** at a point in the centre line of the Road Allowance established in the Original Survey, along the limit between the Township of Mapleton and the Township of West Garafraxa, known as Jones Baseline, where it is intersected by the centre line of the Road Allowance between Lots 14 and 15, Concession "A" in the Township of Mapleton.

**THENCE** in a Southwesterly direction, along the centre line of the Road Allowance, between Lots 14 and 15, Concession "A", Township of Mapleton (Geographic Township of Peel) to a point in the centre line of King's Highway No. 6.

**THENCE** in a Northwesterly direction, along the centre line of King's Highway No. 6, to a point therein, being the intersection of the centre line of the Road Allowance, established in the Original Survey, between Lots 18 and 19, Concession "B", known as Sideroad 12, and its Northeasterly extension, Township of Mapleton (Geographic Township of Peel).

**THENCE** in a Southwesterly direction, to and along the centre line of the Road Allowance, established in the Original Survey, between Lots 18 and 19, Concession "B", known also as Sideroad 12, and its Southwesterly extension to the intersection with the centre line of the Road Allowance, established in the Original Survey, between Concession "B" and Lot 12, Concession 18, known as the Eighteenth Line, Township of Mapleton (Geographic Township of Peel).

**THENCE** in a Northwesterly direction along the centre line of the Road Allowance between Concession "B" and Lot 12, Concession 18, Township of Mapleton (Geographic Township of Peel), known as the Eighteenth Line, to a point therein, where it is intersected by the Southeasterly extension of the centre line of the Road Allowance, established in the Original Survey, between Concessions 18 and 19, known as the Eighteenth Line.

**THENCE** in a Northwesterly direction, along the centre line of the Road Allowance between Concessions 18 and 19, Township of Mapleton (Geographic Township of Peel), known also as the Eighteenth Line, and its Northwesterly extension to a point in the centre line of the Road Allowance, established in the Original Survey between Lot 6 and 7, known as Sideroad 6.

**THENCE** in a Northeasterly direction along the centre line of the Road Allowance, established in the Original Survey, between Lots 6 and 7, Concession 19, known as Sideroad 6, to its intersection with the centre line of the Road Allowance, established in the Original Survey, between the Township of Mapleton and the Village of Arthur.

**THENCE** in a Southeasterly direction, along the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Mapleton and the Village of Arthur and the Township of Arthur, being also along the centre line of King's Highway No. 9, to its intersection with the Northwesterly extension of the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Mapleton and the Township of West Garafraxa, known as Jones Baseline.

**THENCE** in a Southeasterly direction, along the centre line of the aforesaid Road Allowance, established in the Original Survey, known as Jones Baseline to the point of commencement.

#### SCHEDULE F

##### TOWNSHIP OF MOUNT FOREST-ARTHUR- WEST LUTHER-ARTHUR

##### (RE-STRUCTURED)

The entire Town of Mount Forest, the entire Village of Arthur, the entire Township of Arthur, including the annexation of those lands from the Township of Mapleton, as established by Minister's Order on June 12th, 1997, which comes into effect on January 1st, 1998, and the entire Township of West Luther, including the annexation of those lands from the Township of West Garafraxa, will be amalgamated and are more particularly described as follows:

1. The entire Town of Mount Forest
2. The entire Village of Arthur
3. The entire Township of Arthur

##### TOGETHER WITH

- (a) All that portion of the Township of Mapleton, as established by Minister's Order on June 12th, 1997, which comes into effect on January 1st, 1998, that is described in Schedule E, Clause 2 (c)

4. The entire Township of West Luther

##### TOGETHER WITH

- (a) All that portion of the Township of West Garafraxa that is more particularly described in Schedule D, Clause 5 (b).

**SCHEDULE G****TOWN OF MINTO****(RE-STRUCTURED)**

The entire Town of Harriston, the entire Town of Palmerston, the entire Village of Clifford, and entire Township of Minto will be amalgamated.

**SCHEDULE H****TOWN OF MINTO****WARD BOUNDARIES****WARD No. 1**

**COMPRISING ALL** that portion of the new Town of Minto:

**That is bounded** on the West by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Minto, County of Wellington and the Township of Howick, County of Huron, known as the Howick-Minto Townline;

**That is bounded** on the West by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Village of Clifford, County of Wellington and the Township of Howick, County of Huron, known as West Heritage Street;

**That is bounded** on the Northeast by the centre line of King's Highway No. 9, known as Elora Street in the former Village of Clifford and Elora Street in the former Town of Harriston;

**That is bounded** on the Southeast by the Southeasterly limit of the former Town of Harriston;

**That is bounded** on the Southwest by the Southwesterly limit of the former Town of Harriston;

**That is bounded** on the Southeast by the centre line of Arthur Street West in the former Town of Harriston, and Wellington Road 87, through the former Township of Minto;

**WARD No. 2**

**COMPRISING ALL** that portion of the new Town of Minto:

**That is bounded** on the Southwest by the centre line of Elora Street in the former Town of Harriston, by King's Highway No. 9, in the former Township of Minto and by Elora Street in the former Village of Clifford;

**That is bounded** on the West by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Minto, County of Wellington and the Township of Howick, County of Huron, known as Wellington Road 1;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Minto, County of Wellington and the Township of Normanby, County of Grey, known as the Minto-Normanby Townline West;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Minto, County of Wellington and the Township of Normanby, County of Grey, known as the Baseline Road;

**That is bounded** on the South by the centre line of King's Highway No. 89, through a portion of the former Township of Minto;

**That is bounded** on the East by the centre line of King's Highway No. 89, through a portion of the former Township of Minto, and known as Arthur Street East in the former Town of Harriston;

**That is bounded** on the Northeast, Northwest, Northeast, Southeast and Southwest limit of the former Town of Harriston;

**That is bounded** on the Southeast by the centre line of John Street in former Town of Harriston.

**WARD No. 3**

**COMPRISING** all that portion of the new Town of Minto:

**That is bounded** on the North by the centre line of King's Highway No. 89, in the former Township of Minto;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Minto, County of Wellington and the Township of Normanby, County of Grey, known also as King's Highway No. 89;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Minto and the former Township of Arthur, known as Wellington Road 6;

**That is bounded** on the South by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Maryborough and the former Township of Minto, also known as King's Highway No. 9;

**That is bounded** on the Southwest by the centre line of the Original Road Allowance along the limit between the former Township of Minto, County of Wellington and the Township of Wallace, County of Perth, known as King's Highway No. 23;

**That is bounded** on the Southeast by the Southeast limit of the former Town of Palmerston;

**That is bounded** on the Southwest by the centre line of Wellington Road 8, and the centre line of King Street in the former Town of Palmerston;

**That is bounded** on the Northwest by the centre line of Arthur Street in the former Town of Palmerston, its connection with the centre line of York Street, as well as the centre line of York Street in the former Town of Palmerston;

**That is bounded** on the South by the centre line of Main Street East in the former Town of Palmerston;

**That is bounded** on the West by the centre line of Whites Road, in the former Town of Palmerston;

**That is bounded** on the West by the centre line of Wellington Road 5, through the former Township of Minto;

**That is bounded** on the Northwest by the centre line of Wellington Road 5, through the former Township of Minto;

**That is bounded** on the Southwest by the centre line of King's Highway No. 9, through the former Township of Minto;

**That is bounded** on the Northwest by the centre line of John Street in the former Town of Harriston;

**That is bounded** on the North, Northwest, Southwest, Southeast, and Southwest by the limits of the former Town of Harriston;

**That is bounded** on the West and Northwest by King's Highway No. 89, through the former Township of Minto.

**WARD No. 4**

**COMPRISING** all that portion of the new Town of Minto:

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Minto, County of Wellington and the Town-



ship of Howick, County of Huron, known as the Howick-Minto Townline;

**That is bounded** on the Northwest by the centre line of Wellington Road 87, through a portion of the former Township of Minto and the centre line of Arthur Street West in the former Town of Harriston;

**That is bounded** on the Northeast, Northwest, Northeast and Northwest by the limits of the former Town of Harriston;

**That is bounded** on the Northeast by the centre line of Elora Street South in the former Town of Harriston, and by the centre line of King's Highway No. 9, through the former Township of Minto;

**That is bounded** on the Southeast by the centre line of Wellington Road 5, in the former Township of Minto;

**That is bounded** on the East by the centre line of Wellington Road 5, in the former Township of Minto;

**That is bounded** on the East by the centre line of Whites Road in the former Town of Palmerston;

**That is bounded** on the North by the centre line of Main Street East in the former Town of Palmerston;

**That is bounded** on the Northeast and Southeast by the centre line of York Road in the former Town of Palmerston, its connection with the centre line of Arthur Street including the centre line of Arthur Street in the former Town of Palmerston;

**That is bounded** on the Northeast by the centre line of King Street in the former Town of Palmerston, known also as Wellington Road 8;

**That is bounded** on the Southeast, Southwest, Northwest, Southwest, Northwest, by the limit of the former Town of Palmerston;

**That is bounded** on the Southwest by the Southwest limit of King Street in the former Town of Palmerston;

**That is bounded** on the Northwest, Southwest, Northwest, Southwest and Northwest by the limit of the former Town of Palmerston;

**That is bounded** on the Southwest by the Southwest limit of King Street in the former Town of Palmerston;

**That is bounded** by the Southeast, Southwest, and Northwest limits of the former Town of Palmerston;

**That is bounded** on the Southwest by the Southwest limit of King Street in the former Town of Palmerston;

**That is bounded** on the Southeast, South, and Northwest by the limits of the former Town of Palmerston;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Wallace, County of Perth and the former Township of Minto, County of Wellington, known as Wellington Road 4.

## SCHEDULE I

### TOWNSHIP OF MOUNT FOREST-ARTHUR- WEST LUTHER-ARTHUR

#### WARD BOUNDARIES

##### WARD No. 1

**COMPRISING** all that portion of the new Township of Mount Forest-Arthur-West Luther-Arthur:

**That is bounded** on the West by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Arthur and the former Township of Minto, known as Wellington Road 6;

**That is bounded** on the North by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Arthur, County of Wellington and the Township of Normanby, County of Grey, known as King's Highway No. 89;

**That is bounded** on the Northwest, Southwest, Northwest by the limits of the former Town of Mount Forest;

**That is bounded** on the Northeast by the centre line of Main Street, through the former Town of Mount Forest;

**That is bounded** on the Northeast by the centre line of King's Highway No. 6, through the former Township of Arthur;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 13 and 14, West of the Owen Sound Road, known as Sideroad 5 West, in the former Township of Arthur;

**That is bounded** on the South by the centre line of the Road Allowance, established in the Original Survey, between Lots 12 and 13, through Concessions 8 to 12, all and inclusive, in the former Township of Arthur, known as Sideroad 5 West.

##### WARD No. 2

**COMPRISING** all that portion of the new Township of Mount Forest-Arthur-West Luther-Arthur:

**That is bounded** on the Southwest by the centre line of King's Highway No. 6, through a portion of the former Township of Arthur;

**That is bounded** by the centre line of Main Street through the former Town of Mount Forest;

**That is bounded** on the Northwest, Northeast, Northwest, Northeast, Northwest, East, Northeast, by the limits of the former Town of Mount Forest;

**That is bounded** on the North by the centre line of Queen Street East in the former Town of Mount Forest;

**That is bounded** on the North by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Arthur, County of Wellington, and the Township of Egremont, County of Grey, known as King's Highway No. 89;

**That is bounded** on the North by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Luther, County of Wellington, and the Township of Proton, County of Grey, known as King's Highway No. 89;

**That is bounded** on the East by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Luther, County of Wellington and the Township of East Luther, County of Dufferin, known as the East-West Luther Townline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Concessions 10 and 11, in the former Township of West Luther, County of Wellington, known as Wellington Road 15 and Line 10;

**That is bounded** on the Northeast by the centre line of Wellington Road 14;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 9 and 10, Concessions 1 to 5, all and inclusive, in the former Township of Arthur, known as Sideroad 5 East;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lot 9 and Lots 10 to 12, all and inclusive, Concession 6 of the former Township of Arthur, known as Sideroad 5 East;



**That is bounded** on the East by the centre line of the Road Allowance, established in the Original Survey, between Concessions 6 and 7, in the former Township of Arthur, known as Sideroad 5 East;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 13 and 14, East of the Owen Sound Road, known as Sideroad 5 East in the former Township of Arthur.

#### WARD No. 3

**COMPRISING** all that portion of the new Township of Mount Forest-Arthur-West Luther-Arthur:

**That is bounded** on the West by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Arthur and the former Township of Minto, known as Wellington Road 6;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 12 and 13, Concessions 12 to 8, all and inclusive, and known as Sideroad 5 West, in the former Township of Arthur;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 13 and 14, West of the Owen Sound Road in the former Township of Arthur, and known as Sideroad 5 West;

**That is bounded** on the Northeast by the centre line of King's Highway No. 6, through the former Township of Arthur;

**That is bounded** on the Northeast by the centre line of Smith Street, through a portion of the former Village of Arthur;

**That is bounded** on the Northeast by the centre line of George Street, through a portion of the former Village of Arthur;

**That is bounded** on the Northeast by the centre line of King's Highway No. 6, through a portion of the former Township of Mapleton (Geographic Township of Peel), established by Minister's Order, dated June 12th, 1997 and which comes into effect on January 1st, 1998;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 18 and 19, Concession "B", known as Sideroad 12 in the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, between Concession "B" and Lot 12, Concession 18, known as the Eighteenth Line, in the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 18 and 19, known as the Eighteenth Line, in the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 6 and 7, Concession 19, known as also as Sideroad 6, in the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Village of Arthur and the former Township of Mapleton (Geographic Township of Peel), known as Catherine Street and King's Highway No. 9;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Mapleton (Geographic Township of Peel) and the former Township of Arthur, known as King's Highway No. 9;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Maryborough and the former Township of Arthur, known as King's Highway No. 9;

#### WARD No. 4

**COMPRISING** all that portion of the new Township of Mount Forest-Arthur-West Luther-Arthur:

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 13 and 14, East of the Owen Sound Road, known as Sideroad 5 East, in the former Township of Arthur;

**That is bounded** Allowance, established in the Original Survey, between Concessions 6 and 7 in the former Township of Arthur, and known as Sideroad 5 East;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lot 9 and Lots 10 to 12, all and inclusive, Concession 6 of the former Township of Arthur, known as Sideroad 5 East;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 9 and 10, Concession 5 to 1, all and inclusive, in the former Township of Arthur, known as Sideroad 5 East;

**That is bounded** on the Southwest by the centre line of Wellington Road 14;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 10 and 11 of the former Township of West Luther, known as Wellington Road 15 and Line 10;

**That is bounded** on the East by the centre line of the Road Allowance, established in the Original Survey along the limit between the former Township of West Luther, County of Wellington and the Township of East Luther, County of Dufferin, known as the East-West Luther Townline;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Garafraxa, County of Wellington and the Township of East Luther, County of Dufferin, known as King's Highway No. 9;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Garafraxa, County of Wellington and the Township of East Garafraxa, County of Dufferin, known as the East-West Garafraxa Townline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 25 and 26, through Concessions 1 to 8, all and inclusive, of the former Township of West Garafraxa, known as Sideroad 25;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Mapleton, as established by Minister's Order, dated June 12th, 1997, which comes into effect on January 1st, 1998 (Geographic Township of Peel), and the former Township of West Garafraxa, known as Jones Baseline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 14 and 15, Concession "A", former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southwest by the centre line of King's Highway No. 6, through a portion of the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southwest by the centre line of George Street in the former Village of Arthur;

**That is bounded** on the Southwest by the centre line of Smith Street, in the former Village of Arthur;

**That is bounded** on the Southwest by the centre line of King's Highway No. 6, through the former Township of Arthur.

## SCHEDULE J

### TOWNSHIP OF CENTRE WELLINGTON

#### WARD BOUNDARIES

##### WARD No. 1

**COMPRISING** all that portion of the new Township of Centre Wellington:

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Mapleton (Geographic Township of Peel), as established by Minister's Order, dated June 12th, 1997, and which comes into effect on January 1st, 1998, known as Wellington Road 17;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, between Concessions 1 and 2, West of the Grand River, in the former Township of Pilkington, known as the First Line West;

**That is bounded** on the Northwest by the limit between Lots 1 and 2, Concession 1, West of the Grand River, in the former Township of Pilkington;

**That is bounded** on the North by the Southerly limit of the former lands of the Canadian National Railway, West of the Grand River in the former Township of Pilkington;

**That is bounded** on the Northwest by the limit between Lots 2 and 3, Concession 1, West of the Grand River, in the former Township of Pilkington;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Nichol, known as Wellington Road 7;

**That is bounded** on the Northwest by the limit between Lots 14 and 15, Concession 1 in the former Township of Nichol;

**That is bounded** on the Northeast by the centre line of the Road laid out along the limit between Concessions 11 and 12 in the former Township of Nichol and known as Irvine Street;

**That is bounded** on the Northwest by the Road Allowance between Lots 15 and 16, Concession 12 in the former Township of Nichol, known as Sideroad 15;

**That is bounded** on the Northeast by the Road Allowance between Concessions 12 and 13, known as Gerrie Road and its Southeasterly extension to the centre line of the Grand River.

**That is bounded** on the Southeast by the centre line of the Grand River;

**That is bounded** on the Southwest by the Southwest limit of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington, County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Woolwich, County of Waterloo). A portion of which is known as Wellington Road 17, and Woolwich-Pilkington Townline.

##### WARD No. 2

**COMPRISING** all that portion of the new Township of Centre Wellington, which is more particularly described as follows:

**That is bounded** on the Northwest by the centre line of the Grand River;

**That is bounded** on the Northeast by the centre line of Gilkinson Street in the former Township of Nichol;

**That is bounded** on the Southeast by the centre line of the First Line in the former Township of Nichol;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, between the former Township of Pilkington and the former Township of Nichol, known as Wellington Road 7;

**That is bounded** on the Southeast by the centre line of Sideroad 14, East of the Grand River, in the former Township of Pilkington;

**That is bounded** on the Southwest by the Southwest limit of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington, County of Wellington, and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Woolwich, County of Waterloo), known as the Woolwich-Pilkington Townline;

##### WARD No. 3

**COMPRISING** all that portion of the new Township of Centre Wellington, which is more particularly described as follows:

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Nichol, and known as Wellington Road 7;

**That is bounded** on the Northwest by the limit between Lots 1 and 2, Concession 11 in the former Township of Nichol;

**That is bounded** on the Southwest by the limit between Concessions 11 and 12, in the former Township of Nichol;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol and the former Township of Mapleton (Geographic Township of Peel), as established by Minister's Order, dated June 12th, 1997, and which comes into effect on January 1st, 1998, and known as Wellington Road 17;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol and the former Township of West Garafraxa, known as Jones Baseline, through the former Township of Nichol, the former Township of West Garafraxa, and Wellington Road 43 (Gartshore Street) in the former Town of Fergus;

**That is bounded** on the Southeast by the centre line of the Grand River;

**That is bounded** on the Southwest by the centre line of the Road Allowance between Concessions 12 and 13 in the former Township of Nichol, known as Gerrie Road and its Southeasterly extension;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 15 and 16, Concession 12 in the former Township of Nichol, known as Sideroad 15;

**That is bounded** on the Southwest by the road along the limit between Concessions 11 and 12, in the former Township of Nichol and known as Irvine Street;

**That is bounded** on the Southeast by the limit between Lots 14 and 15, Concession 11 in the former Township of Nichol.



**WARD No. 4**

**COMPRISING** all that portion of the new Township of Centre Wellington, which is more particularly described as follows:

**That is bounded** on the Northwest by the centre line of the Grand River;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol and the former Township of West Garafraxa, known as Jones Baseline, by the centre line of Wellington Road 43 (Gartshore Street), in the former Town of Fergus, and by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol, and the former Township of Eramosa, known as Jones Baseline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Concessions 8 and 9, in front of Lots 14 to 9, all and inclusive, in the former Township of Nichol, known as Wellington Road 22;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Concessions 8 and 9 in the former Township of Nichol, and is known as the Eighth Line;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Nichol, known as Wellington Road 7;

**That is bounded** on the Northwest by the centre line of the road known as First Line, in the former Township of Nichol;

**That is bounded** on the Southwest by the centre line of Gilkinson Street, in the former Township of Nichol.

**WARD No. 5**

**COMPRISING** all that portion of the new Township of Centre Wellington, which is more particularly described as follows:

**That is bounded** on the Northwest by the Road Allowance, between Lots 25 and 26, through Concessions 1 to 8, all and inclusive, in the former Township of West Garafraxa, known as Sideroad 25;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Garafraxa, County of Wellington and the Township of East Garafraxa, County of Dufferin, known as the East-West Garafraxa Townline;

**That is bounded** on the Southeast by the centre line of the Grand River;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol and the former Township of West Garafraxa, and known as Wellington Road 43 (Gartshore Street) in the former Town of Fergus, and Jones Baseline, both in the former Township of Nichol and the former Township of West Garafraxa;

**WARD No. 6**

**COMPRISING** all that portion of the new Township of Centre Wellington, which is more particularly described as follows:

**That is bounded** on the Northwest by the centre line of the Grand River;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Garafraxa, County of Wellington and the Township of East Garafraxa, County of Dufferin, known as the East-West Garafraxa Townline;

**That is bounded** on the Southeast by the Northwest limit of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Garafraxa and the former Town of Erin (Geographic Township of Erin), as established by Minister's Order, dated June 12th, 1997, and which comes into effect on January 1st, 1998, known as the Erin-Garafraxa Townline;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Eramosa and the Town of Erin, (Geographic Township of Erin), and known as Wellington Road 26;

**That is bounded** on the Southeast by the Road Allowance between Lots 25 and 26, through Concessions 7 to 2, all and inclusive, in the former Township of Eramosa, known as Wellington Road 22;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, between Concessions 1 and 2 in the former Township of Eramosa, and known as Wellington Road 29;

**That is bounded** on the Southeast by the centre line of the Road, established along the limit between Lots 24 and 25, in the former Township of Eramosa, known as Wellington Road 22;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol and the former Township of Eramosa, known as Jones Baseline, and known as Wellington Road 43 (Gartshore Street) in the former Town of Fergus.

**SCHEDULE K****TOWNSHIP OF GUELPH-ERAMOSA****WARD BOUNDARIES****WARD No. 1**

**COMPRISING** all that portion of the new Township of Guelph-Eramosa:

**That is bounded** on the Northwest by the centre line of Sideroad 14, East of the Grand River, in the former Township of Pilkington;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington, and the former Township of Nichol, known as Wellington Road 7;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established by the Original Survey, between Concessions 8 and 9, in the former Township of Nichol and known as the Eighth Line;

**That is bounded** on the Northeast by the centre line of King's Highway No. 6, through portions of the former Township of Nichol and the former Township of Guelph;

**That is bounded** by the limits of the City of Guelph;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Puslinch and the former Township of Guelph;

**That is bounded** on the Southwest by the Southwest limit of the Road Allowance, established in the Original Survey, along the limit between the former Township of Guelph, County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Waterloo, County of Waterloo), known as the Woolwich-Guelph Townline;

**That is bounded** on the West by the West limit of the Road Allowance, established in the Original Survey, along the limit between the former Township of Guelph, County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Waterloo, County of Waterloo), known as the Woolwich-Guelph Townline;



**That is bounded** on the South and Southwest by the South and Southwest limit of Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington, County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Woolwich, County of Waterloo), known as the Woolwich-Pilkington Townline;

#### WARD No. 2

**COMPRISING** all that portion of the new Township of Guelph-Eramosa, being more particularly described as follows:

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey between Concessions 8 and 9, through Lots 9 to 14, all and inclusive, in the former Township of Nichol, and known as Wellington Road 22;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol and the former Township of Eramosa, known as Jones Baseline, and Wellington Road 22;

**That is bounded** on the Northwest by the centre line of a road established along the limit between Lots 24 and 25, Concession 1 in the former Township of Eramosa, and known as Wellington Road 22;

**That is bounded** on the Southwest by the centre line of the Road Allowance, between Concessions 1 and 2 in the former Township of Eramosa, that is known as Wellington Road 29;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 25 and 26, through Concessions, 2, 3, and 4, of the former Township of Eramosa, known as Wellington Road 22;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, between Concessions 4 and 5 in the former Township of Eramosa, and known as the Fifth Line;

**That is bounded** on the Southeast by the centre line of King's Highway No. 24;

**That is bounded** by the limits of the City of Guelph;

**That is bounded** on the Southwest by the centre line of King's Highway No. 6 through a portion of the former Township of Guelph and the former Township of Nichol.

#### WARD No. 3

**COMPRISING** all that portion of the new Township of Guelph-Eramosa, being more particularly described as follows;

**That is bounded** on the Northwest by the centre line of King's Highway No. 24, through a portion of the former Township of Guelph, and portion of the former Township of Eramosa;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, between Concessions 4 and 5 in the former Township of Eramosa, and known as Wellington Road 27, as well as King's Highway No. 7;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Eramosa, County of Wellington and the Town of Milton, Regional Municipality of Halton (Geographic Township of Nassagaweya, County of Halton), known as the Eramosa-Milton Townline and a portion of King's Highway No. 7;

**That is bounded** on the Northeast by the limit between the East and West Halves of Lot 32, Concession 3, former Township of Eramosa,

County of Wellington (Geographic Township of Nassagaweya, County of Halton), being the Northeast limit of the former Township of Eramosa, County of Wellington;

**That is bounded** on the Southeast by the limit between Lots 31 and 32, through Concession 2 and the West Half of Concession 3 (Geographic Township of Nassagaweya, County of Halton), being also the Southeast limit of the former Township of Eramosa, County of Wellington;

**That is bounded** on the Southwest by the Southwest limit of Lot 32, Concession 2 in the former Township of Eramosa, County of Wellington, being the limit between the aforesaid former Township of Eramosa, County of Wellington and the Town of Milton, Regional Municipality of Halton (Geographic Township of Nassagaweya, County of Halton);

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Eramosa, County of Wellington and the Town of Milton, Regional Municipality of Halton (Geographic Township of Nassagaweya, County of Halton);

**That is bounded** on the Southwest by the Southwest limit of the Road Allowance, established in the Original Survey, along the limit between the Township of Puslinch and the former Township of Eramosa, known as Jones Baseline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Guelph and the Township of Puslinch, known as Stone Road East;

**That is bounded** by the limits of the City of Guelph.

#### WARD No. 4

**COMPRISING** all that portion of the new Township of Guelph-Eramosa, being more particularly described as follows:

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 25 and 26, through Concessions 5 to 7, all and inclusive, of the former Township of Eramosa, and known as Wellington Road 22;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Eramosa, and the Town of Erin, established by a Minister's Order, dated June 12th, 1997, which comes into effect on January 1st, 1998, known as Wellington Road 26, as well as the Eramosa-Erin Townline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between the former Township of Eramosa, County of Wellington and the Town of Milton, Regional Municipality of Halton (Geographic Township of Nassagaweya, County of Halton), and known as King's Highway No. 7 and a portion of the Eramosa-Milton Townline;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 4 and 5 in the former Township of Eramosa, known as King's Highway No. 7 and Wellington Road 27, and a portion of the Fifth Line.

### SCHEDULE L

#### TOWNSHIP OF MAPLETON

##### WARD BOUNDARIES

#### WARD No. 1

**COMPRISING** all that portion of the new Township of Mapleton:

**That is bounded** on the Southwest by the centre line of Wellington Road 7, through the former Township of Mapleton (Geographic Town-

ship of Peel), as established by Minister's Order, dated June 12th, 1997, and which comes into effect on January 1st, 1998, and through the former Township of Maryborough;

**That is bounded** on the North by the centre line of the Road Allowance, established in the Original Survey, between the former Township of Maryborough and the former Township of Minto, known as King's Highway No. 9;

**That is bounded** on the North by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Maryborough and the former Township of Arthur, known as King's Highway No. 9;

**That is bounded** on the North by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Mapleton (Geographic Township of Peel) and the former Township of Arthur and former Village of Arthur;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between Lots 6 and 7, Concession 19, known as Sideroad 6, in the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Northeast by the centre line of the Road Allowance between Concessions 18 and 19, known also the Eighteenth Line, in the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, between Concession "B" and Lot 12, Concession 18, known as the Eighteenth Line, through a portion of the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 18 and 19, Concession "B", known as Sideroad 12, through a portion of the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Northeast by the centre line of King's Highway No. 6, in front of Lots 15 to 18 all and inclusive, Concessions "A" and "B", through a portion of the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 14 and 15, Concession "A", former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Mapleton (Geographic Township of Peel) and the former Township of West Garafraxa, known as Jones Baseline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol, and the former Township of Mapleton (Geographic Township of Peel), known as the Nichol-Peel Townline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol and the former Township of Mapleton (Geographic Township of Peel), known as Wellington Road 17;

**That is bounded** on the Northeast by the limit between Concessions 11 and 12, in the former Township of Nichol;

**That is bounded** on the Southeast by the limit between Lots 1 and 2, Concession 11 in the former Township of Nichol;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Nichol, known as Wellington Road 7;

## WARD No. 2

**COMPRISING** all that portion of the new Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southwest by the centre line of Wellington Road 8 through a portion of the former Township of Mapleton (Geographic Township of Peel), the centre line of Main Street, in the former Township of Mapleton (Geographic of the Village of Drayton), as established by Minister's Order, dated June 12th, 1997, and which comes into effect on January 1st, 1998, and by the centre line of Wellington Road 8, through a portion of the former Township of Maryborough;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Maryborough, County of Wellington and the former Township of Wallace, County of Perth, known as Wellington Road 9;

**That is bounded** on the Northeast by the centre line of Wellington Road 7, through a portion of the former Township of Maryborough and the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Nichol, known as Wellington Road 7;

**That is bounded** on the Southeast by the limit between Lots 2 and 3, Concession 1, West of the Grand River, in the former Township of Pilkington;

**That is bounded** on the South by the South limit of the original lands of the Canadian National Railway, in the former Township of Pilkington;

**That is bounded** on the Southeast by the limit between Lots 1 and 2, Concession 1, West of the Grand River, in the former Township of Pilkington;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 1 and 2, West of the Grand River in the former Township of Pilkington;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between the former Township of Pilkington and the former Township of Mapleton (Geographic Township of Peel), known as Wellington Road 17.

## WARD No. 3

**COMPRISING** all that portion of the new Township of Mapleton:

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 6 and 7, in the former Township of Mapleton (Geographic Township of Peel), as established by Minister's Order, dated June 12th, 1997, and which comes into effect on January 1st, 1998, and known as the Sixth Line;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 6 and 7 in the former Township of Maryborough, known as Concession 6;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Maryborough, County of Wellington, and the former Township of Wallace, County of Perth, known as Wellington Road 9;

**That is bounded** on the Northeast by the centre line of Wellington Road 8, through the former Township of Maryborough, by the centre



line of Main Street through the former Township of Mapleton (Geographic Village of Drayton) and by the centre line of Wellington Road 8 through a portion of the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southeast by the centre line of the Road allowance established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Mapleton (Geographic Township of Peel), known as Wellington Road 17;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Mapleton (Geographic Township of Peel), County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Woolwich, County of Waterloo); known as the Woolwich-Peel Townline.

#### WARD No. 4

**COMPRISING** all that portion of the new Township of Mapleton:

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, between the former Township of Mapleton (Geographic Township of Peel), as established by Minister's Order, dated June 12th, 1997, and which comes into effect on January 1st, 1998, County of Wellington and the Township of Wellesley, Regional Municipality of Waterloo (Geographic Township of Wellesley, County of Waterloo), known as King's Highway No. 86;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Maryborough, County of Wellington and the former Township of Mornington, County of Perth, known as King's Highway No. 86;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Maryborough, County of Wellington and the former Township of Wallace, Township of Perth, known as Wellington Road 9;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey between Concessions 6 and 7, in the former Township of Maryborough, known as Concession 6;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, through a portion of the former Township of Mapleton (Geographic Township of Peel) and known as the Sixth Line;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Mapleton (Geographic Township of Peel), County of Wellington, and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Woolwich, County of Waterloo), known as the Woolwich-Peel Townline;

**That is bounded** on the East by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Mapleton (Geographic Township of Peel), County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Woolwich, County of Waterloo), and known as the Woolwich-Peel Townline, and Wellington Road 48.

#### SCHEDULE M

#### COUNTY OF WELLINGTON

#### (RE-STRUCTURED)

#### COUNTY WARD No. 3

**COMPRISING** all that portion of the new Township of Mount Forest-Arthur-West Luther-Arthur, the limits of which are more particularly described as follows:

**That is bounded** on the North by the centre line of the Road Allowance established in the Original Survey, along the limit between the former Township of Arthur, County of Wellington and the Township of Normanby, County of Grey, that is known as King's Highway No. 89;

**That is bounded** on the Northwest, Southwest, Northwest, Southwest, Northwest, Northeast, Northwest, Northeast, Northwest, East and Northeast by the limits of the former Town of Mount Forest;

**That is bounded** on the North by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Arthur, County of Wellington and the Township of Egremont, County of Grey, known as King's Highway No. 89;

**That is bounded** on the North by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Luther, County of Wellington and the Township of Proton, County of Grey, known as King's Highway No. 89;

**That is bounded** on the East by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Luther, County of Wellington and the Township of East Luther, County of Dufferin, known as the East-West Luther Townline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Concessions 10 and 11 of the former Township of West Luther, County of Wellington, known as Wellington Road 15 and Line 10;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 9 and 10, Concessions 1 to 5, all and inclusive, in the former Township of Arthur, known as Sideroad 5 East;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lot 9 and Lots 10 to 12, all and inclusive, Concession 6 of the former Township of Arthur, known as Sideroad 5 East;

**That is bounded** on the East by the centre line of the Road Allowance, established in the Original Survey, between Concessions 6 and 7, in the former Township of Arthur, known as Sideroad 5 East;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 13 and 14, East of the Owen Sound Road, known as Sideroad 5 East, in the former Township of Arthur;

**That is bounded** on the Northeast by the centre line of King's Highway No. 6, through the former Township of Arthur, the centre line of Smith Street and George Street, through the former Village of Arthur, the centre line of King's Highway No. 6, through the former Township of Mapleton (Geographic Township of Peel), as established by Minister's Order, dated June 12th, 1997 and which comes into effect on January 1st, 1998;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 18 and 19, Concession "B" (Geographic Township of Peel), known also as Sideroad 12, in the former Township of Mapleton;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, between Concession "B" and Lot 12, Concession 18 (Geographic Township of Peel), known as the Eighteenth Line in the former Township of Mapleton;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 18 and 19 (Geographic Township of Peel), known as the Eighteenth Line, in the former Township of Mapleton;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 6 and 7, Concession 19 (Geographic Township of Peel), known also as Sideroad 6, in the former Township of Mapleton;



**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Village of Arthur and the former Township of Mapleton (Geographic Township of Peel), known as King's Highway No. 9, and known as Catherine Street in the former Village of Arthur;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Mapleton (Geographic Township of Peel), and the former Township of Arthur, known as King's Highway No. 9;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the boundary between the former Township of Maryborough and the former Township of Arthur, known as King's Highway No. 9;

**That is bounded** on the West by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Minto and the former Township of Arthur, known as Wellington Road 6.

**SCHEDULE N**  
**COUNTY OF WELLINGTON**  
**(RE-STRUCTURED)**  
**COUNTY WARD No. 4**

**COMPRISING** a portion of the new Township of Mount Forest-Arthur-West Luther-Arthur, and a portion of the new Township of Centre Wellington, the limits of which are more particularly described as follows:

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 13 and 14, East of the Owen Sound Road, known as Sideroad 5 East;

**That is bounded** on the East by the centre line of the Road Allowance, established in the Original Survey between Concessions 6 and 7, in the former Township of Arthur, known as Sideroad 5 East;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lot 9, Concession 6 and Lots 12 to 10, all and inclusive, Concession 6, also known as Sideroad 5 East;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 9 and 10, through Concessions 5, 4, 3, 2, and 1, in the former Township of Arthur, also known as Sideroad 5 East;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 10 and 11, through Lots 1 to 9, all and inclusive, known as Line 10, in the former Township of West Luther;

**That is bounded** on the Northwest, by the centre line of the Road Allowance, established in the Original Survey, between Concessions 10 and 11, known as Wellington Road 15, in the former Township of West Luther;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Luther, County of Wellington and the Township of East Luther, County of Dufferin, known as the East-West Luther Townline;

**That is bounded** on the North by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Garafraxa, County of Wellington, and the Township of East Luther, County of Dufferin, known as King's Highway No. 9;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Garafraxa, County of Wellington and the Township of East Garafraxa, County of Dufferin, known as the East-West Garafraxa Townline;

**That is bounded** on the Southeast by the centre line of the Grand River;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol and the former Township of West Garafraxa, known as Wellington Road 43 (Gartshore Street) within the former Town of Fergus, and Jones Baseline through the former Township of Nichol and the former Township of West Garafraxa.

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Mapleton (Geographic Township of Peel), as established by Minister's Order on June 12th, 1997, and which comes into effect on January 1st, 1998, and the former Township of West Garafraxa, known as Jones Baseline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, between Lots 14 and 15, Concession "A", the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southwest by the centre line of King's Highway No. 6, through the former Township of Mapleton (Geographic Township of Peel);

**That is bounded** on the Southwest by the centre line of George Street and Smith Street, through the former Village of Arthur;

**That is bounded** on the Southwest by the centre line of King's Highway No. 6, through the former Township of Arthur.

**SCHEDULE O**  
**COUNTY OF WELLINGTON**  
**(RE-STRUCTURED)**  
**COUNTY WARD No. 5**

**COMPRISING** all that portion of the new Township of Centre Wellington, described as follows:

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol, and the former Township of West Garafraxa, known as Jones Baseline, through the former Township of Nichol and the former Township of West Garafraxa, and Wellington Road 43 (Gartshore Street), through the former Town of Fergus;

**That is bounded** on the Southeast by the centre line of the Grand River;

**That is bounded** on the Southwest by the Southwest limit of Road Allowance, established in the Original Survey, along the boundary between the former Township of Pilkington, County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Woolwich, County of Waterloo), known as the Woolwich-Pilkington Townline, a portion of which is known as Wellington Road 17;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Mapleton (Geographic Township of Peel), established by Minister's Order, dated June 12th, 1997, and which comes into effect on January 1st, 1998, known as Wellington Road 17;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, between Concessions 1 and 2, West of the Grand River, in the former Township of Pilkington, known as First Line West;

**That is bounded** on the Northwest by the limit between Lots 1 and 2, Concession 1, West of the Grand River, in the former Township of Pilkington;

**That is bounded** on the North by the Southerly limit of the original lands of the Canadian National Railway;

**That is bounded** on the Northwest by the limit between Lots 2 and 3, Concession 1, West of the Grand River, in the former Township of Pilkington;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Nichol, also known as Wellington Road 7;

**That is bounded** on the Northwest by the limit between Lots 1 and 2, Concession 11, in the former Township of Nichol;

**That is bounded** on the Southwest by the limit between Concessions 11 and 12 in the former Township of Nichol;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol, and the former Township of Mapleton, known as Wellington Road 17, and the Nichol-Peel Townline;

centre line of Wellington Road 22, in the former Township of Eramosa;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Eramosa and the former Township of Nichol, known as Jones Baseline;

**That is bounded** on the Southeast by the centre line of the Road Allowance between Concessions 8 and 9, known as Wellington Road 22, in the former Township of Nichol;

**That is bounded** on the Southeast by the centre line of the Road Allowance between Concessions 8 and 9, known as the Eighth Line, in the former Township of Nichol;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Nichol, known as Wellington Road 7;

**That is bounded** on the Southeast by the centre line of Sideroad 14, in the former Township of Pilkington;

**That is bounded** on the Southwest by the Southwest limit of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington, County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Woolwich, County of Waterloo), known as the Woolwich-Pilkington Townline;

**That is bounded** on the Northwest by the centre line of the Grand River.

#### SCHEDULE P

##### COUNTY OF WELLINGTON

##### (RE-STRUCTURED)

##### COUNTY WARD No. 6

**COMPRISING** a portion of the new Township of Centre Wellington, the limits of which are more particularly described as follows:

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Garafraxa, County of Wellington and the Township of East Garafraxa, County of Dufferin, known as the East-West Garafraxa Townline;

**That is bounded** on the Southeast by the Northwest limit of the Road Allowance, established in the Original Survey, along the limit between the former Township of West Garafraxa and the Town of Erin, as established by Minister's Order, dated June 12th, 1997, which comes into effect on January 1st, 1998, known as the Erin-Garafraxa Townline;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Eramosa and the Town of Erin, (Geographic Township of Erin), known as the Wellington Road 26;

**That is bounded** on the Southeast by the centre line of the Road Allowance, between Lots 25 and 26, through Concessions 7 to 2, all and inclusive, also known as Wellington Road 22, in the former Township of Eramosa;

**That is bounded** on the Northeast by the centre line of the Road Allowance between Concessions 1 and 2, former Township of Eramosa, known as Wellington Road 29;

**That is bounded** on the Southeast by the centre line of a road, established along the limit between Lots 24 and 25, Concession 1, the

#### SCHEDULE Q

##### COUNTY OF WELLINGTON

##### (RE-STRUCTURED)

##### COUNTY WARD No. 7

**FIRSTLY COMPRISING** the entire Township of Puslinch;

**SECONDLY COMPRISING** a portion of the new Township of Guelph-Eramosa, more particularly described as follows;

**That is bounded** on the Northeast by the centre line of King's Highway No. 6, through the former Township of Nichol and the former Township of Guelph;

**That is bounded** by the various limits of the City of Guelph;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Guelph and the Township of Puslinch;

**That is bounded** on the Southwest by the Southwest limit of the Road Allowance, established in the Original Survey, along the limit between the former Township of Guelph, County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Waterloo, County of Waterloo), known as the Woolwich-Guelph Townline;

**That is bounded** on the West by the Westerly limit of the Road Allowance, established in the Original Survey, along the limit between the former Township of Guelph, County of Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Waterloo, County of Waterloo), known as the Woolwich-Guelph Townline;

**That is bounded** on the South and Southwest by the South and Southwest limits of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington, County of



Wellington and the Township of Woolwich, Regional Municipality of Waterloo (Geographic Township of Woolwich, County of Waterloo), known as the Woolwich-Pilkington Townline;

**That is bounded** on the Northwest by the centre line of Sideroad 14, in the former Township of Pilkington;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Pilkington and the former Township of Nichol, known as Wellington Road 7;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 8 and 9, Lots 1 to 8, all and inclusive, known as the Eighth Line, in the former Township of Nichol.

## SCHEDULE R

### COUNTY OF WELLINGTON

#### (RE-STRUCTURED)

#### COUNTY WARD No. 8

**COMPRISING** a portion of the new Township of Guelph-Eramosa, being more particularly described as follows:

**That is bounded** on the Southwest by the Southwest limit of the Road Allowance, established in the Original Survey, along the limit between the Township of Puslinch and the former Township of Eramosa, known as Jones Baseline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the Township of Puslinch and the former Township of Guelph, known as Stone Road East;

**That is bounded** on the Southwest, Northwest and Southeast, by the limits of the City of Guelph;

**That is bounded** on the Southwest by the centre line of King's Highway No. 6, through the former Township of Guelph and a portion of the former Township of Nichol;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 8 and 9, in the former Township of Nichol, known as Wellington Road 22;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Nichol and the former Township of Eramosa, known as Jones Baseline;

**That is bounded** on the Northwest by the centre line of the Road, established along the limit between Lots 24 and 25, Concession 1, in the former Township of Eramosa, being also the centre line of Wellington Road 22;

**That is bounded** on the Southwest by the centre line of the Road Allowance, established in the Original Survey, between Concessions 1 and 2 in the former Township of Eramosa, known as Wellington Road 29;

**That is bounded** on the Northwest by the centre line of the Road Allowance, established in the Original Survey, between Lots 25 and 26, through Concessions 2 to 7, all and inclusive, and the centre line of the Wellington Road 22, in the former Township of Eramosa;

**That is bounded** on the Northeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Eramosa and the Town of Erin, (Geographic Township of Erin), known as Wellington Road 26 and the Eramosa-Erin Townline;

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Eramosa, County of Wellington, and the Town of Milton, Regional Municipality of Halton (Geographic Township of Nassagaweya, County of Halton), known as the Eramosa-Milton Townline, a portion of which is known as King's Highway No. 7;

**That is bounded** on the Northeast by the limit between the East and West Halves of Lot 32, Concession 3 (Geographic Township of Nassagaweya, County of Halton), being the Northeast limit of the former Township of Eramosa, County of Wellington;

**That is bounded** on the Southeast by the limit between Lots 31 and 32, through Concession 2 and West Half of Concession 3 (Geographic Township of Nassagaweya, County of Halton), being also the Southeast limit of the former Township of Eramosa, County of Wellington;

**That is bounded** on the Southwest by the Southwest limit of Lot 32, Concession 2 former Township of Eramosa, being the limit between the aforesaid former Township of Eramosa, County of Wellington, and the Town of Milton, Regional Municipality of Halton (Geographic Township of Nassagaweya, County of Halton);

**That is bounded** on the Southeast by the centre line of the Road Allowance, established in the Original Survey, along the limit between the former Township of Eramosa, County of Wellington, and the Town of Milton, Regional Municipality of Halton (Geographic Township of Nassagaweya, County of Halton).

(6114) 50

## Applications to Provincial Parliament — Private Bills Demandes au Parlement provincial — Projets de loi d'intérêt privé

### PUBLIC NOTICE

The rules of procedure and the fees and costs related to applications for Private Bills are set out in the Standing Orders of the Legislative Assembly. Copies of the Standing Orders may be obtained from:

Committees Branch  
Room 1405, Whitney Block, Queen's Park  
Toronto, Ontario M7A 1A2

Telephone: 416/325-3500 (Collect calls will be accepted.)

Applicants should note that consideration of applications for Private Bills that are received after the first day of September in any calendar year may be postponed until the first regular Session in the next following calendar year.

CLAUDE L. DESROSIER.  
Clerk of the Legislative Assembly.

(8699) T.F.N.

## Applications to Provincial Parliament Demandes au Parlement provincial

### CANADIAN AUTOMOTIVE MUSEUM INC.

NOTICE IS HEREBY GIVEN that on behalf of the Canadian Automotive Museum Inc. application will be made to the Legislative Assembly of the Province of Ontario for an Act to authorize the cancellation of taxes for municipal and school purposes in respect of the land and premises known municipally as 99 Simcoe Street South in the City of Oshawa.



The application will be considered by the Standing Committee on Regulations and Private Bills. Any person who has an interest in the application and who wishes to make submissions, for or against the application, to the Standing Committee on Regulations and Private Bills should notify, in writing, the Clerk of the Legislative Assembly, Legislative Building, Queen's Park, Toronto, Ontario, M7A 1A2.

Dated at Oshawa, this 22nd day of November, 1997.

J.F. INNES,  
President of the Board of Directors,  
Canadian Automotive Museum Inc.

(9421) 47-50

## Corporation Notices Avis relatifs aux compagnies

### KENSHIP LIMITED

NOTICE IS HEREBY GIVEN that Kenship Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 28th day of November, 1997.

DANA CRAWFORD KENNEDY,  
Secretary.

(9486) 50

### 958696 ONTARIO INC.

TAKE NOTICE CONCERNING WINDING UP of 958696 Ontario Inc., Date of Incorporation: December 9, 1991, Liquidator: Bruce Ladouceur, 1049 Moffat Drive, Cumberland, Ontario K4C 1B7.

This notice is filed under subsection 193 (4) of the *Business Corporations Act*. The Special Resolution requiring the Corporation to be wound up voluntarily was passed/consented to by the shareholder of the Corporation on November 21, 1997.

Dated at Gloucester, this 21st day of November, 1997.

BRUCE LADOUCEUR,  
Liquidator.

(9487) 50

### INDEPENDENT LOGGERS ASSOCIATION (RED LAKE)

NOTICE IS HEREBY GIVEN that Independent Loggers Association (Red Lake) intends to dissolve pursuant to the *Corporations Act*.

Dated this 28th day of November, 1997.

Secretary-Treasurer.

(9488) 50

### THE DOCTORS HOSPITAL FOUNDATION

NOTICE IS HEREBY GIVEN that the number of directors of The Doctors Hospital Foundation was decreased from eighteen to sixteen by a Special Resolution passed by the directors and confirmed by the members of the Corporation on the 28th day of October, 1997.

Dated this 10th day of November, 1997.

BRIAN MCFARLANE,  
Secretary.

(9489) 50

### 872538 ONTARIO INC.

NOTICE IS HEREBY GIVEN that 872538 Ontario Inc. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Owen Sound, this 28th day of November, 1997.

BRENT HOWSON,  
President.

(9490) 50

### DUNDAS PLASTICS INC. Ontario Corporation Number 553472

TAKE NOTICE CONCERNING WINDING UP of Dundas Plastics Inc., Date of Incorporation/Amalgamation: June 17, 1983, Liquidator: KPMG Inc., Suite 700, 21 King Street West, Hamilton, Ontario L8N 3R1, Date Appointed: June 19, 1997.

This notice is filed under subsection 205 (2) of the *Business Corporations Act*. A resolution of the shareholders of the Corporation pursuant to section 104 and subsection 205 (1) of the Act was passed on November 11, 1997.

Pursuant to subsection 205 (5) of the *Business Corporations Act*, on the expiration of three months after the date of filing of this notice, the Corporation is dissolved.

Dated at Hamilton, this 21st day of November, 1997.

KPMG INC.,  
Liquidator.  
per: Kevin Treacy

(9491) 50

### 1218749 ONTARIO LIMITED

NOTICE IS HEREBY GIVEN that 1218749 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Niagara Falls, this 4th day of December, 1997.

N.A. MCKAY,  
President.

(9499) 50

## Partnership Dissolution/Changes Dissolution de sociétés/La modifications

### NORTHERN GRAPHICS

NOTICE IS HEREBY GIVEN that Northern Graphics intends to dissolve pursuant to the *Partnerships Act*, effective on the 30th day of June, 1997.

Dated this 4th day of December, 1997.

THOMAS R. FOSTER,  
President.

(9498) 50

## Miscellaneous Notices Avis divers

### RCA (PRESCOTT) CREDIT UNION LIMITED

Pursuant to the provisions of Section 298 (23) of the *Credit Unions and Caisses Populaires Act, 1994*. We, William Klazinga and Lois Rayvals, as Liquidators of the estate and effects of RCA (Prescott) Credit Union Limited, hereby call a special meeting of the members and shareholders of RCA (Prescott) Credit Union Limited to be held at Country at the Rock in the Town of Prescott, Ontario, on the 4th day of December, 1997 at 2:00 p.m. for the purpose of presenting our account and giving any explanation thereof for approval by the members and shareholders at such meeting in accordance with the credit union's by-laws.

WILLIAM KLAZINGA & LOIS RAYVALS,  
Liquidators.

(9497) 50

### PRIMUM INSURANCE COMPANY/PRIMUM COMPAGNIE D'ASSURANCE

NOTICE IS HEREBY GIVEN that Primum Insurance Company/Primum compagnie d'assurance will make an application to the Commissioner of Insurance for Ontario pursuant to the *Insurance Act*

authorizing Primum Insurance Company/Primum compagnie d'assurance to carry on within Ontario the business of automobile insurance, liability insurance and property insurance.

Dated at Toronto, this 4th day of December, 1997.

Robert W. McDowell,  
FASKEN CAMPBELL GODFREY,  
Barristers and Solicitors,  
Box 20, Suite 4200,  
Toronto Dominion Bank Tower,  
Toronto-Dominion Centre,  
Toronto, Ontario  
M5K 1N6.

(9500) 50-52

## Sales of Lands for Tax Arrears by Public Tender Ventes de terrains par appel d'offres pour arriéré d'impôt

### MUNICIPAL TAX SALES ACT

#### THE CORPORATION OF THE TOWN OF FORT ERIE

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3:00 p.m. local time on December 23, 1997, at The Municipal Centre, Clerk's Dept.

The tenders will then be opened in public on the same day at The Municipal Centre, Engineering Conference Room #3.

Description of Land(s)	Minimum Tender Amount
1. 1800 Thompson Road Con 2 NR, Pt Lot 6 Site Area 10.0 acres Roll #020-026-10600 .....	\$18,512.74

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office payable to the municipality (or board) and representing at least 20 per cent of the tender amount.

The Municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act*, being chapter M.60 of the Revised Statutes of Ontario 1990 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender contact:

GILLIAN CORNEY,  
Mgr. of Revenue & Collections,  
Finance Dept. Ext. 228 (905) 871-1600,  
The Corporation of the  
Town of Fort Erie,  
1 Municipal Centre Drive,  
Fort Erie, Ontario,  
L2A 2S6

(9493) 50

### MUNICIPAL TAX SALES ACT

#### THE CORPORATION OF THE TOWN OF ESPANOLA

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3:00 p.m. local time on January 15, 1998 at the Town of Espanola.

The tenders will then be opened in public on the same day at 4:00 p.m.

Description of Land(s)	Minimum Tender Amount
Roll #006-03700. Parcel 10384 Sudbury West Section, Lot 9, Concession 5, Plan M176, Lot 15, Merritt Township, Town of Espanola, Elizabeth Street. ....	\$1,320.00
Roll #006-01000. #006-03300. #006-03500. #006-03400. #006-05800. #006-05700. #006-06300. #006-06200. . Parcel 21264 Sudbury West Section, Lot 9, Concession 5, Plan M176, Lot 4, 5, 17, 18, 20, 21, 29, 30, Merritt Township, Town of Espanola .....	\$2,345.00

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office payable to the municipality (or board) and representing at least 20 per cent of the tender amount.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act*, being chapter M.60 of the Revised Statutes of Ontario 1990 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender contact:

MERWYN P. SHEPPARD,  
Clerk Treasurer/Administrator,  
The Corporation of the  
Town of Espanola  
100 Tudhope Street, Suite #2,  
Espanola, Ontario  
P5E 1S6

(9494) 50

### MUNICIPAL TAX SALES ACT

#### THE CORPORATION OF THE CITY OF TORONTO

TAKE NOTICE that tenders are invited for the purchase of the lands described below and will be received until 3:00 p.m. local time on Wednesday, January 14, 1998 at the tender box in the Corporate Services, City Clerk's Division, Secretariat Section, 2nd Floor, City Hall, Toronto, Ontario M5H 2N2.

The tenders will then be opened in public on the same day at 3:15 p.m.

Description of Land(s)	Minimum Tender Amount
<b>189 Baldwin Street - Rear</b> Part of lot 36, Registered Plan D15, as set out in Instrument CT278143 .....	\$1,673.88



Minimum  
Tender Amount

Description of Land(s)

**351 Lake Shore Boulevard East  
(Firstly)**

Part of the Marsh Lands granted to the City of Toronto by the Ontario Government on May 18, 1880 and the Dominion Government under Letters Patent dated October 10, 1903 and part of the Road 150 feet wide, Registered Plan 159E, designated as PARTS 3, 5, 7, 9 and 11 on Plan 63R-4604 as set out in Instrument CA99597. (Freehold Lands)

(Secondly)

Part of the Road 150 feet wide, Registered Plan 159E, designated as PART 1 on Plan 63R-4604 as set out in Instrument CA99598. (Leasehold Lands). . . . . \$1,296,653.61

**369 Lake Shore Boulevard East**

Part of the Marsh Lands granted to the City of Toronto by the Ontario Government on May 18, 1880 and the Dominion Government on October 10, 1903, part of Block A, Registered Plan 674E, Part of the Road 150 feet wide Registered Plan 159E, designated as PARTS 4, 6, 8, 10 and 12 on Plan 63R-4604, as set out in Instrument CA56834. . . . . \$863,571.33

**324 Cherry Street**

Part of the Marsh Lands granted to the City of Toronto by the Ontario Government on May 18, 1880 and the Dominion Government under Letters Patent dated October 10, 1903, Part of Block A, Registered Plan 674E and Part of the Road 150 feet wide and part of Cherry Street, Registered Plan 159E designated as PARTS 1, 2, 3, 4, 5 and 6 on Plan 63R-4359, saving and excepting PART 1 on Plan 64R-13190. . . . . \$2,067,457.68

All of the above lands are registered in the Land Titles Division of Metropolitan Toronto (No. 64).

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust corporation or Province of Ontario Savings Office payable to the Municipality (The Treasurer, City of Toronto) and representing at least 20 per cent of the tender amount.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act*, being chapter M.60 of the Revised Statutes of Ontario 1990 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax plus any additional Tax Sale Costs.

For further information regarding this sale and a copy of the prescribed form of tender contact:

MR. R. OLDFORD,  
Tax Sales Officer,  
The Corporation of the  
City of Toronto,  
112 Elizabeth Street,  
Toronto, Ontario  
M5G 1P5 at (416) 392-7509  
TTY users call (416) 392-0719

CITY TREASURER

MUNICIPAL TAX SALES ACT

**THE CORPORATION OF THE TOWNSHIP OF  
RICHMOND**

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3:00 p.m. local time on December 29, 1997 at the Township Offices, Selby, Ontario.

The tenders will then be opened in public on the same day at the Township Offices, Selby, Ontario.

Minimum  
Tender Amount

Description of Land(s)

**PARCEL 1**

Part of the Broken Front Lot 25, Concession 2, Township of Richmond, County of Lennox and Addington, described as follows:

ALL AND SINGULAR that certain parcel or tract of land and premises situate, lying and being in the Township of Richmond, in the County of Lennox and Addington and being composed of part of the Broken Front of Lot 25, Concession 2, in the said Township of Richmond, more particularly described as follows:

COMMENCING at a point on the west limit of said Lot 25, Concession 2, in the Township of Richmond, where it is intersected by the production easterly of the southerly limit of Church Street in the Town of Napanee;

THENCE easterly at right angles to the west limit of Lot 25 to the high water mark of the east shore of the Napanee River;

THENCE southerly and westerly following said high water mark of the Napanee River to its point of intersection with the west limit of said Lot 25, Concession 2, in the Township of Richmond;

THENCE northerly continuing along the high water mark of the east shore of the Napanee River to another point of intersection with the west limit of said Lot 25, Concession 2, in the Township of Richmond;

THENCE northerly and southerly continuing along the high water mark of the east shore of the Napanee River to another point of intersection with the west limit of said Lot 25, Concession 2, in the Township of Richmond;

THENCE northerly along the west limit of said Lot 25, Concession 2, in the Township of Richmond, to the point of commencement. . . . . \$6,843.73

**PARCEL 2**

ALL AND SINGULAR that certain parcel or tract of land and premises situate, lying and being in the Township of Richmond in the County of Lennox Addington and being composed of Part of the Gore Lot 22, in the 9th Concession of the said Township of Richmond, more particularly described as follows:



Description of Land(s)	Minimum Tender Amount
COMMENCING at a point on the easterly limit of Provincial Highway No. 41 distant southerly 114.57 feet from the north point of the said Gore Lot;	
THENCE easterly at right angles to the said Highway limit 80 feet more or less to a point where an iron stake has been planted;	
THENCE southerly parallel to the said easterly limit of the Highway a distance of 21 feet;	
THENCE westerly a distance of 80 feet to the said easterly limit of the Highway;	
AND THENCE northerly 21 feet along the said easterly limit of the highway to the point of commencement.....	\$6,729.58

**PARCEL 3**

Part of Lot 9, Concession 3, Township of Richmond, being composed of triangular shaped parcel of land, bounded on the West and South by lands owned by the Township of Richmond and formerly used as a public road, and being bounded on the north east by the presently used public road (commonly referred to as the Beechwood Road); the said triangular shaped parcel of land is illustrated on deposited Reference Plan 29R-1226, and is a section of land remaining when a right angle turn was removed from the Geechwood Road by a new curve in the said road.....\$5,756.61

**PARCEL 4**

Part Lot 23, Concession 3, Township of Richmond, County of Lennox & Addington, Being Part 1 on Reference Plan 29R-4331.....\$22,970.11

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust corporation or Province of Ontario Savings Office payable to the municipality (or board) and representing at least 20 per cent of the tender amount.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act* and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax, as well as any applicable G.S.T.

For further information regarding this sale and a copy of the prescribed form of tender contact:

Clerk Treasurer,  
The Corporation of the  
Township of Richmond,  
P.O. Box 100,  
Selby, Ontario  
K0K 2Z0

(9496) 50

## Sales of Land for Tax Arrears by Public Auction Ventes de terrains aux enchères publiques pour arriéré d'impôt

### MUNICIPAL TAX SALES ACT

#### THE CORPORATION OF THE COUNTY OF PERTH

TAKE NOTICE that the land(s) described below will be offered for sale by public auction at 9:30 o'clock in the forenoon on the 6th day of January, 1998 at Perth County Court House, One Huron Street, Stratford, Ontario N5A 5S4.

Description of Land(s)	Minimum Bid \$
1. Westerly One-Quarter Lot 24 Concession 13 Township of Logan approximately 25 acres .....	\$13,692.88

All amounts payable by the successful purchaser shall be payable in full at the time of the sale by cash or money order or by a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act, 1990* and the *Municipal Tax Sales Rules*. The successful purchaser will be required to pay the amount bid plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale, contact:

JUDY SCHWEITZER,  
Deputy Clerk-Treasurer,  
Corporation of the County of Perth,  
County Court House  
One Huron Street  
Stratford, Ontario  
N5A 5S4

(9492) 50

# Publications under the Regulations Act Publications en vertu de la Loi sur les règlements

1997—12—13

## ONTARIO REGULATION 418/97 made under the LONDON-MIDDLESEX ACT, 1992

Made: November 25, 1997

Filed: November 27, 1997

Amending O. Reg. 333/93  
(Land Use—City of London)

Note: Ontario Regulation 333/93 has not previously been amended.

1. Section 1 of Ontario Regulation 333/93 is amended by adding the following paragraph:

4. The land in the City of London, formerly in the Township of London, consisting of part of the north half of lots 25 and 26 in Concession III, being Part 2 of Reference Plan 33R-10379, and designated "Industrial" in the City of London official plan in effect on January 1, 1993.

AL LEACH  
Minister of Municipal Affairs and Housing

Dated on November 25, 1997.

50/97

## ONTARIO REGULATION 419/97 made under the PLANNING ACT

Made: November 25, 1997

Filed: November 27, 1997

Amending O. Reg. 346/96  
(Withdrawal and Delegation of Minister's Authority—  
Regional Municipality of York and City of Vaughan)

Note: Ontario Regulation 346/96 has not previously been amended.

1. Schedule 1 of Ontario Regulation 346/96 is amended by adding the following file numbers:

19T-94051	19T-91017
19T-94045	19T-91011
19T-94043	19T-91009
19T-94038	19T-91001
19T-94037	19T-90037
19T-93023	19T-90035
19T-92017	19T-90028
19T-92001	19T-90027
19T-91034	19T-90018
19T-91018	19T-90009

19T-90008	19T-88084
19T-89129	19T-88076
19T-89125	19T-88055
19T-89124	19T-88037
19T-89122	19T-88034
19T-89121	19T-88028
19T-89118	19T-88024
19T-89102	19T-88021
19T-89094	19T-88004
19T-89090	19T-87118
19T-89082	19T-87101
19T-89081	19T-87100
19T-89080	19T-87091
19T-89079	19T-87088
19T-89066	19T-87078
19T-89064	19T-87076
19T-89063	19T-87060
19T-89058	19T-87050
19T-89056	19T-87047
19T-89053	19T-87014
19T-89051	19T-86096
19T-89050	19T-86092
19T-89047	19T-86077
19T-89037	19T-86041
19T-89035	19T-85094
19T-89027	19T-84076
19T-89025	19T-84047
19T-89016	19T-84029
19T-89015	19T-83067
19T-89001	19T-83051
19T-88099	19T-82052
19T-88096	19T-81061
19T-88095	19T-80002

2. Schedule 2 to the Regulation is amended by adding the following file numbers:

19CDM-92001  
19CDM-91019  
19CDM-91016  
19CDM-89069  
19CDM-89058

AL LEACH  
Minister of Municipal Affairs and Housing

Dated on November 25, 1997.

50/97

**ONTARIO REGULATION 420/97**  
made under the  
**POLICE SERVICES ACT**

Made: November 27, 1997  
Filed: November 27, 1997

**COSTS OF ONTARIO PROVINCIAL POLICE  
SERVICES TO MUNICIPALITIES UNDER  
SECTION 5.1 OF THE ACT**

1. (1) In this Regulation,

“OPP” means the Ontario Provincial Police.

(2) In subparagraphs i, ii, iii and iv of paragraph 2 of section 2,

“proportionate amount” means an amount that is in the same proportion to a total amount as the number of OPP police officers assigned to a detachment serving a municipality is to the number of OPP police officers assigned to serve in the field, regional headquarters and general headquarters.

(3) In subparagraphs v, vi, vii and viii of paragraph 2 of section 2,

“proportionate amount” means an amount that is in the same proportion to a total amount as the number of OPP police officers assigned to a detachment serving a municipality is to the number of OPP police officers assigned to serve in the field.

(4) In subparagraph ix of paragraph 2 of section 2,

“proportionate amount” means an amount that is in the same proportion to a total amount as the number of OPP police officers assigned to a detachment serving a municipality is to the number of OPP police officers assigned to serve in the field and in regional headquarters.

2. The amount owed by a municipality that is provided police services by the OPP under section 5.1 of the Act shall consist of the following costs:

1. The direct costs of providing police services to the municipality, including,

- i. the actual salaries, wages, overtime payments, vacation pay, statutory holiday pay and benefits paid to the police officers and other employees of the OPP who serve or support policing in the municipality,
- ii. the actual amount paid as shift premiums, service badges, allowances and any other compensation under a collective agreement paid to the police officers of the OPP who serve or support policing in the municipality,
- iii. the actual costs of maintaining the detachment to serve the municipality, including the costs for office rental, office maintenance services, office equipment, office furniture, electricity, heating and telephone service.

2. The operational support costs associated with providing police services to the municipality, including,

**RÈGLEMENT DE L'ONTARIO 420/97**  
pris en application de la  
**LOI SUR LES SERVICES POLICIERS**

pris le 27 novembre 1997  
déposé le 27 novembre 1997

**COÛTS DES SERVICES DE LA POLICE PROVINCIALE  
DE L'ONTARIO QUE DOIVENT ASSUMER  
DES MUNICIPALITÉS AUX TERMES DE  
L'ARTICLE 5.1 DE LA LOI**

1. (1) La définition qui suit s'applique au présent règlement.

«Police provinciale» La Police provinciale de l'Ontario.

(2) La définition qui suit s'applique aux sous-dispositions i, ii, iii et iv de la disposition 2 de l'article 2.

«montant proportionnel» Montant dont le rapport avec un montant total est le même que le rapport existant entre le nombre d'agents de police de la Police provinciale affectés à un détachement qui sert une municipalité et le nombre d'agents de police de la Police provinciale qui sont affectés au travail sur le terrain, au quartier général régional et au Grand quartier général.

(3) La définition qui suit s'applique aux sous-dispositions v, vi, vii et viii de la disposition 2 de l'article 2.

«montant proportionnel» Montant dont le rapport avec un montant total est le même que le rapport existant entre le nombre d'agents de police de la Police provinciale affectés à un détachement qui sert une municipalité et le nombre d'agents de police de la Police provinciale qui sont affectés au travail sur le terrain.

(4) La définition qui suit s'applique à la sous-disposition ix de la disposition 2 de l'article 2.

«montant proportionnel» Montant dont le rapport avec un montant total est le même que le rapport existant entre le nombre d'agents de police de la Police provinciale affectés à un détachement qui sert une municipalité et le nombre d'agents de police de la Police provinciale qui sont affectés au travail sur le terrain et au quartier général régional.

2. Le montant d'argent que doit une municipalité à laquelle la Police provinciale offre des services policiers aux termes de l'article 5.1 de la Loi comprend les coûts suivants :

1. Les coûts directement liés à l'offre de services policiers à la municipalité, notamment :

- i. les traitements, salaires, indemnités d'heures supplémentaires, indemnités de vacances, rémunérations de jours fériés et avantages sociaux réellement versés aux agents de police et autres employés de la Police provinciale qui offrent les services policiers dans la municipalité, ou qui en assurent le soutien,
- ii. le montant réellement versé au titre des primes de quart, des insignes pour ancienneté et états de service, des indemnités et de toute autre rémunération prévue par une convention collective, qui est versée aux agents de police de la Police provinciale qui offrent les services policiers dans la municipalité, ou qui en assurent le soutien,
- iii. les coûts réellement engagés pour assurer le fonctionnement du détachement qui sert la municipalité, notamment les coûts de location des bureaux, des services d'entretien des bureaux, du matériel de bureau et de l'ameublement de bureau, ainsi que les frais d'électricité, de chauffage et du service téléphonique.

2. Les coûts en matière de soutien opérationnel liés à l'offre de services policiers à la municipalité, notamment :



- i. a proportionate amount of the OPP's general headquarters' costs of recruiting and training police officers and of equipping police officers with uniforms and equipment,
  - ii. a proportionate amount of the operating and maintenance costs for the OPP telecommunication system, backup and emergency communication systems, including insurance and hydro costs for the systems and the salaries, wages and benefits paid to the OPP communications officers,
  - iii. a proportionate amount of the operating and maintenance costs for OPP mobile radio equipment and related equipment in the province,
  - iv. a proportionate amount of the costs of the telephone lines for the Canadian Police Information Centre (CPIC),
  - v. a proportionate amount of the costs of the OPP Municipal Policing Section, including the salaries, wages, overtime payments, vacation pay, statutory holiday pay and benefits paid to the employees in the OPP Municipal Policing Section and other direct operating expenditures of the OPP Municipal Policing Section,
  - vi. a proportionate amount of the costs to the OPP of guarding prisoners and of providing prisoners with meals in the province,
  - vii. a proportionate amount of the operating costs for OPP vehicles used for municipal policing in the province, including costs for fuel, tires, repairs, maintenance, replacement, insurance and equipment depreciation,
  - viii. a proportionate amount of the costs of Police Information Systems,
  - ix. a proportionate amount of the costs of OPP office supplies and janitorial supplies for the province.
3. The municipality's share of the regional and general headquarters' costs of providing support services for municipal policing in the province, determined by multiplying the amount owed by the municipality under paragraphs 1 and 2 by a percentage that is equal to,
- i. the regional and general headquarters' costs of providing support services for municipal policing in the province,

divided by

- ii. the OPP's total field operations costs.

3. (1) Before the beginning of each calendar year, the OPP shall give each municipality for which it will be providing police services under section 5.1 of the Act an estimate of the amount that the municipality will owe for the services for that year.

(2) If the OPP begins to provide police services to a municipality under section 5.1 of the Act during a calendar year, the OPP shall give the municipality, as soon as possible, an estimate of the amount that the municipality will owe for the services for the remainder of that year.

- i. le montant proportionnel des frais engagés par le Grand quartier général de la Police provinciale pour le recrutement et la formation des agents de police et la dotation de ceux-ci en uniformes et en équipement et matériel,
- ii. le montant proportionnel des coûts associés au fonctionnement et à l'entretien du système de télécommunications et des systèmes de communications de secours et d'urgence de la Police provinciale, y compris les frais d'assurance et d'électricité pour les systèmes ainsi que les traitements, salaires et avantages sociaux versés aux agents des communications de la Police provinciale,
- iii. le montant proportionnel des coûts associés au fonctionnement et à l'entretien de l'équipement de radio mobile et de l'équipement connexe utilisés dans la province par la Police provinciale,
- iv. le montant proportionnel des coûts des lignes téléphoniques utilisées par le Centre d'information de la police canadienne (CIPC),
- v. le montant proportionnel des coûts de la Section des services policiers municipaux de la Police provinciale, notamment les traitements, salaires, indemnités d'heures supplémentaires, indemnités de vacances, rémunérations de jours fériés et avantages sociaux versés aux employés de cette section, et d'autres dépenses de fonctionnement directes de cette section,
- vi. le montant proportionnel des coûts qu'engage la Police provinciale, dans la province, pour garder les prisonniers et leur fournir des repas,
- vii. le montant proportionnel des coûts de fonctionnement associés aux véhicules de la Police provinciale utilisés pour offrir des services policiers municipaux dans la province, y compris les frais d'essence, les frais relatifs aux pneus, les frais de réparation, d'entretien, de remplacement et d'assurance, ainsi que l'amortissement pour dépréciation de l'équipement et du matériel,
- viii. le montant proportionnel des coûts des systèmes d'information de la police,
- ix. le montant proportionnel des coûts des fournitures de bureau et des fournitures et produits de nettoyage et d'entretien de la Police provinciale pour la province.

3. La part des coûts engagés par le Grand quartier général et le quartier général régional pour fournir des services de soutien à l'égard des services policiers municipaux offerts dans la province qui échoit à la municipalité et qui est déterminée en multipliant le montant dû par la municipalité aux termes des dispositions 1 et 2 par un pourcentage égal :

- i. aux coûts engagés par le Grand quartier général et le quartier général régional pour fournir des services de soutien à l'égard des services policiers municipaux offerts dans la province,

divisés par :

- ii. le montant total des coûts des opérations sur le terrain engagés par la Police provinciale.

3. (1) Avant le début de chaque année civile, la Police provinciale remet à chaque municipalité à laquelle elle offrira des services policiers aux termes de l'article 5.1 de la Loi une estimation du montant que la municipalité devra payer à l'égard des services pour cette année-là.

(2) Si la Police provinciale commence à offrir des services policiers à une municipalité aux termes de l'article 5.1 de la Loi au cours d'une année civile, elle remet à la municipalité, dès que possible, une estimation du montant que celle-ci devra payer à l'égard des services pour le reste de cette année-là.

4. (1) The municipality shall pay the Minister of Finance the amount set out in the estimate in quarterly instalments, on March 31, June 30, September 30 and December 31 of each year.

(2) Interest on late payments shall be at the bank rate, as defined in subsection 127 (1) of the *Courts of Justice Act*, at the end of the first day of the last month of the quarter preceding the quarter for which the payment is late, rounded to the nearest tenth of a percentage point.

5. (1) After the end of the calendar year, the OPP shall determine the actual amount owed by the municipality in that year.

(2) If the actual amount owed by the municipality is less than the estimated amount, the difference shall be subtracted from the estimated amount owed by the municipality for the first quarter of the next year.

(3) If the actual amount owed by the municipality is greater than the estimated amount, the difference shall be added to the estimated amount owed by the municipality for the first quarter of the next year.

(4) If the OPP does not provide police services under section 5.1 of the Act to the municipality in the first quarter of the next year, any amount owed to the municipality under subsection (2) or to the OPP under subsection (3) shall be paid to the municipality or to the Minister of Finance, as the case may be, by March 31 of the next year.

6. If one detachment provides police services under section 5.1 of the Act to more than one municipality, the OPP shall allocate the costs of the detachment, as determined under section 2, to each municipality in accordance with the proportion of the total services provided by the detachment that are provided to the municipality.

7. This Regulation comes into force on January 1, 1998 and is applicable to police services provided under section 5.1 of the Act commencing on that date.

50/97

**ONTARIO REGULATION 421/97**  
made under the  
**POLICE SERVICES ACT**

Made: November 27, 1997  
Filed: November 27, 1997

**MEMBERS OF POLICE SERVICES BOARD—  
CODE OF CONDUCT**

1. Board members shall attend and actively participate in all board meetings.

2. Board members shall not interfere with the police force's operational decisions and responsibilities or with the day-to-day operation of the police force, including the recruitment and promotion of police officers.

3. Board members shall undergo any training that may be provided or required for them by the Solicitor General.

4. Board members shall keep confidential any information disclosed or discussed at a meeting of the board, or part of a meeting of the board, that was closed to the public.

5. No board member shall purport to speak on behalf of the board unless he or she is authorized by the board to do so.

4. (1) La municipalité paie au ministre des Finances le montant indiqué dans l'estimation par versements trimestriels, soit le 31 mars, le 30 juin, le 30 septembre et le 31 décembre de chaque année.

(2) Les intérêts moratoires sont calculés au taux d'escompte, au sens du paragraphe 127 (1) de la *Loi sur les tribunaux judiciaires*, qui est en vigueur à la fin du premier jour du dernier mois du trimestre précédant le trimestre à l'égard duquel un paiement est en retard, arrondi au dixième près d'un point de pourcentage.

5. (1) Après la fin de l'année civile, la Police provinciale détermine le montant réel que doit la municipalité pour cette année-là.

(2) Si le montant réel que doit la municipalité est inférieur au montant estimatif, la différence est soustraite du montant estimatif imputé à la municipalité pour le premier trimestre de l'année suivante.

(3) Si le montant réel que doit la municipalité est supérieur au montant estimatif, la différence est ajoutée au montant estimatif imputé à la municipalité pour le premier trimestre de l'année suivante.

(4) Si la Police provinciale n'offre pas à la municipalité de services policiers aux termes de l'article 5.1 de la Loi au cours du premier trimestre de l'année suivante, tout montant dû à la municipalité aux termes du paragraphe (2) ou à la Police provinciale aux termes du paragraphe (3) est versé à la municipalité ou au ministre des Finances, selon le cas, au plus tard le 31 mars de cette année-là.

6. Si un détachement offre des services policiers aux termes de l'article 5.1 de la Loi à plus d'une municipalité, la Police provinciale impute à chaque municipalité les coûts engagés par le détachement, déterminés aux termes de l'article 2, suivant la proportion de la totalité des services offerts par le détachement que représente les services offerts à la municipalité.

7. Le présent règlement entre en vigueur le 1<sup>er</sup> janvier 1998 et s'applique aux services policiers offerts aux termes de l'article 5.1 de la Loi à compter de cette date.

6. A board member who expresses disagreement with a decision of the board shall make it clear that he or she is expressing a personal opinion.

7. Board members shall discharge their duties loyally, faithfully, impartially and according to the Act, any other Act and any regulation, rule or by-law, as provided in their oath or affirmation of office.

8. Board members shall uphold the letter and spirit of the Code of Conduct set out in this Regulation and shall discharge their duties in a manner that will inspire public confidence in the abilities and integrity of the board.

9. Board members shall discharge their duties in a manner that respects the dignity of individuals and in accordance with the *Human Rights Code* and the *Charter of Rights and Freedoms* (Canada).

10. Board members shall not use their office to advance their interests or the interests of any person or organization with whom or with which they are associated.

11. (1) Board members shall not use their office to obtain employment with the board or the police force for themselves or their family member.

(2) For the purpose of subsection (1), "family member" means the parent, spouse or child of the person, as those terms are defined in section 1 of the *Municipal Conflict of Interest Act*.



12. A board member who applies for employment with the police force, including employment on contract or on fee for service, shall immediately resign from the board.

13. Board members shall refrain from engaging in conduct that would discredit or compromise the integrity of the board or the police force.

14. A board member whose conduct or performance is being investigated or inquired into by the Commission under section 25 of the Act shall decline to exercise his or her duties as a member of the board for the duration of the investigation or inquiry.

15. If the board determines that a board member has breached the Code of Conduct set out in this Regulation, the board shall record that determination in its minutes and may,

- (a) require the member to appear before the board and be reprimanded;
- (b) request that the Ministry of the Solicitor General conduct an investigation into the member's conduct; or
- (c) request that the Commission conduct an investigation into the member's conduct under section 25 of the Act.

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**ONTARIO REGULATION 422/97**  
made under the  
**ONTARIO MUNICIPAL EMPLOYEES**  
**RETIREMENT SYSTEM ACT**

Made: November 27, 1997

Filed: November 27, 1997

Amending Reg. 890 of R.R.O. 1990  
(General)

Note: Regulation 890 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Subsection 11.1 (2) of Regulation 890 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

(2) Despite subsection 10 (2.1), the Board, on the advice of its actuary, shall decrease equally the rates of contribution under subsections 10 (2.1) and 11 (1) if,

- (a) an actuarial valuation made under subsection 7 (1) of the Act and filed with the Superintendent under the *Pension Benefits Act* reveals a surplus; and
- (b) in the opinion of the Board, the surplus is sufficient to,
  - (i) permit a decrease in the contributions to the Fund, and
  - (ii) provide a reserve to avoid a future going concern unfunded liability or solvency deficiency, both as defined in Regulation 909 of the Revised Regulations of Ontario, 1990 made under the *Pension Benefits Act*.

(3) A decrease in contribution rates under subsection (2) is effective for such period or periods of time as may be determined by the Board.

**2. Subsections 14 (9) and (11) of the Regulation are revoked and the following substituted:**

(9) Despite subsections (4) and (7), if on December 1, 1997 a member was entitled to a disability benefit under subsection (3) and on January 1, 1998 continues to be so entitled, the member's deemed annual rate of contributory earnings referred to in clause (4) (a) and deemed Year's Maximum Pensionable Earnings referred to in clause (4) (b) shall be increased on January 1, 1998 by the 1997 inflation catch-up adjustment as defined in subsection 22 (2).

(11) Despite subsections (4) and (7), if on December 1, 1997 a member was entitled to a disability benefit under subsection (3) and on January 1, 1998 the member is entitled to a pension or a deferred pension or the member's spouse or children are entitled to a pension in respect of the deceased member, the pension shall be increased on January 1, 1998 by the 1997 inflation catch-up adjustment, as defined in subsection 22 (2), using the date the member became entitled to a disability benefit as the commencement date of the pension or deferred pension to be increased by the inflation adjustment.

**3. (1) Clause 15 (2) (a) of the Regulation is amended by striking out "60 per cent" in the first line and substituting "66 2/3 per cent" and by striking out "one-sixth" in the fourth line and substituting "one-eighth".**

**(2) Subclause 15 (2) (b) (i) of the Regulation is amended by striking out "60 per cent" and substituting "66 2/3 per cent".**

**4. (1) Subsection 15.1 (2) of the Regulation is amended by,**

- (a) striking out "60 per cent" in the first line of clause (a) and substituting "66 2/3 per cent"; and
- (b) striking out "one-sixth" in clause (b) and substituting "one-eighth".

**(2) Clause 15.1 (3) (a) of the Regulation is amended by striking out "60 per cent" in the first line and substituting "66 2/3 per cent".**

**5. Subsection 15.2 (14) of the Regulation is amended by striking out "the first day of January, 1988" in the second line, in the fourth line and in the seventh and eighth lines and substituting in each case "January 1, 1998".**

**6. Subsections 16 (8) and (9) of the Regulation are revoked and the following substituted:**

(8) Despite subsection (3), if on December 1, 1997 a member was entitled to a deferred pension and on January 1, 1998 continues to be so entitled, the deferred pension of the member shall be increased on January 1, 1998 by the 1997 inflation catch-up adjustment as defined in subsection 22 (2).

(9) Despite subsection (3), if on December 1, 1997 a member was entitled to a deferred pension and on January 1, 1998 the member is entitled to a pension or the member's spouse or children are entitled to a pension in respect of the deceased member, the pension shall be increased on January 1, 1998 by the 1997 inflation catch-up adjustment, as defined in subsection 22 (2), that would have been applicable had the member continued to be entitled to a deferred pension on January 1, 1998.

**7. (1) Section 17 of the Regulation is amended by adding the following subsections:**

(5.2) Despite subsection (5), from January 1, 1998 until December 31, 2002 and subject to the *Income Tax Act* (Canada), if a member retires on or after November 30, 1997, the annual amount of early retirement pension payable to a member under this section is the annual amount of pension calculated under section 13 if, at the date of the early retirement,



- (a) the sum of the member's age, counted in full years and months, plus credited service and eligible service, counted in full years and months, equals,
  - (i) in the case of a member whose normal retirement age is 65 years, at least 85 years; or
  - (ii) in the case of a member whose normal retirement age is 60 years, a sum of at least 80 years; or
- (b) the sum of the member's credited service and eligible service counted in full years and months equals at least 30 years.

(7.1) Despite subsection (7), from January 1, 1998 until December 31, 2002 and subject to the *Income Tax Act* (Canada), if a member retires on or after November 30, 1997 and if at the date of early retirement the member is not eligible to receive an early retirement pension under subsection (5), the annual amount of early retirement pension payable to the member under this section is the annual amount of pension calculated under section 13 reduced at the rate of 2 1/2 per cent multiplied by the least of,

- (a) the number of full years and months by which the member's age is less than the member's normal retirement age, on the date the early retirement pension is to commence;
- (b) 85, in the case of a member whose normal retirement age is 65 years or 80, in the case of a member whose normal retirement age is 60 years, minus the sum of the member's credited service and the member's age, in full years and months on the date the member's early retirement pension is to commence; and
- (c) the number of full years and months by which the sum of the member's credited service is less than 30 years, on the date the member's early retirement pension is to commence.

**8. Subsection 21 (1.4) of the Regulation is revoked and the following substituted:**

(1.4) Despite subsection (1.1), the inflation adjustment for 1998 is 100 per cent of the inflation increase for that year.

**9. Section 22 of the Regulation is revoked and the following substituted:**

**22. (1)** In this section,

"inflation increase" means the percentage increase of the September, 1997 Consumer Price Index for Canada over,

- (a) if a pension was payable on December 1, 1997, the Consumer Price Index for Canada for the month in which the person's pension commenced;
- (b) despite clause (a), if a pension was payable on December 1, 1997 in respect of a deceased person to a spouse or child of that person, the Consumer Price Index for Canada for the earlier of the month in which the spouse's or child's pension commenced or the month in which the deceased person's pension had commenced, as the case may be;
- (c) if a member was entitled to a deferred pension on December 1, 1997 under section 16, the Consumer Price Index for Canada for the month in which the member became so entitled; or
- (d) if a member was entitled to a disability benefit on December 1, 1997 under subsection 14 (3), the Consumer Price Index for Canada for the month in which the member became so entitled.

(2) For the purposes of this section, the 1997 inflation catch-up adjustment with respect to any person is 100 per cent of the inflation increase minus the total per cent increase to December 31, 1997 under section 14, 16 or 21 applicable to a pension or deferred pension or in respect of a disability benefit under section 14 payable to that person.

(3) The 1997 inflation catch-up adjustment shall not be less than zero.

(4) Despite subsection (1), for the purposes of subsections 14 (9) and (11), the inflation increase shall equal the lesser of the inflation increase under subsection (1) and the percentage increase in the monthly average of the average weekly wages and salaries of the Industrial Aggregate in Canada as published by Statistics Canada, for the same period as the inflation increase under subsection (1).

(5) The pension payable to a person during his or her lifetime shall be determined in accordance with this Regulation or a predecessor of this Regulation in force at the commencement of the pension to the person and,

- (a) if a pension is payable to a person on January 1, 1998, the pension payable on that date shall be increased by the 1997 inflation catch-up adjustment described in subsection (2); and
- (b) if a person who would have been entitled to an increase under clause (a) dies before January 1, 1998, the pension payable in respect of that deceased person to another person or persons on January 1, 1998 shall be increased on that date by the 1997 inflation catch-up adjustment that would have applied under clause (a) in respect of the deceased person had he or she not died.

**10. This Regulation comes into force on January 1, 1998.**

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# **ONTARIO REGULATION 423/97** made under the **MUNICIPAL ELECTIONS ACT, 1996**

Made: November 26, 1997

Filed: November 27, 1997

## **CITY OF TORONTO—1997 RECOUNTS**

**1. (1)** The council of the City of Toronto incorporated under the *City of Toronto Act, 1997* may, on or before February 2, 1998 pass a resolution under clause 57 (1) (a) of the Act requiring a recount of votes cast in the 1997 regular election,

- (a) for all or specified candidates for an office on the council;
- (b) for all or specified answers to a question submitted by the council of the Borough of East York, the City of Etobicoke, the City of North York, the City of Scarborough, the City of Toronto or the City of York;
- (c) for and against a by-law submitted by the council of the Borough of East York, the City of Etobicoke, the City of North York, the City of Scarborough, the City of Toronto or the City of York.

(2) The councils of the Borough of East York, the City of Etobicoke, the City of North York, the City of Scarborough, the City of Toronto or the City of York shall not pass a resolution under clause 57 (10) (a) of the Act with respect to the election described in subsection (1).

(3) The last date an application for a recount under section 58 of the Act may be made to the Ontario Court (General Division) with respect to an election described in subsection (1) is extended to February 2, 1998.

2. Commencing January 1, 1998, the clerk of the City of Toronto incorporated under the *City of Toronto Act, 1997* is responsible for conducting all remaining aspects of the 1997 regular elections held in the geographic area of the City of Toronto.

3. An application for a compliance audit under section 81 of the Act with respect to a candidate for office on the council of the City of Toronto incorporated under the *City of Toronto Act, 1997* may not be made by an elector before January 1, 1998.

4. **This Regulation shall be deemed to have come into force on November 10, 1997.**

AL LEACH  
Minister of Municipal Affairs and Housing

Dated on November 26, 1997.

50/97

**ONTARIO REGULATION 424/97**  
made under the  
**HIGHWAY TRAFFIC ACT**

Made: November 27, 1997  
Filed: November 28, 1997

**COMMERCIAL VEHICLE OPERATOR'S  
REGISTRATION CERTIFICATES**

1. (1) In this Regulation,

"commercial motor vehicle", "CVOR certificate" and "operator" have the same meanings as in subsection 16 (1) of the Act.

(2) In this Regulation and for the purpose of subsection 18 (2) of the Act,

"fleet size" means the total number of commercial motor vehicles operated in Ontario in a specified period by a holder of a CVOR certificate, reduced by the percentage of the total distance travelled by those commercial motor vehicles in that period that was outside Ontario.

2. An application for a CVOR certificate shall be in a form provided by the Minister.

3. The Registrar may issue a CVOR certificate subject to an expiry date.

4. The following fees shall be paid to the Ministry for:

- |   |         |
|---|---------|
| 1. An uncertified copy of an operator's CVOR record ..... | \$ 5.00 |
| 2. A certified copy of an operator's CVOR record .....    | 10.00   |

5. The safety record of an operator shall contain:

1. Any suspension or cancellation of the plate portion of the permit under clause 47 (1) (a) of the Act.
2. Any suspension or cancellation of the operator's CVOR certificate under clause 47 (1) (c) of the Act.

3. Any restriction imposed under subsection 47 (2) of the Act on the number of commercial motor vehicles that may be operated by the operator.

4. Any seizure under subsection 47 (10) of the Act of a permit or number plate issued by another jurisdiction.

5. Any notice sent to the operator under section 47.1 of the Act.

6. The particulars of any accident involving a commercial motor vehicle operated by the operator, or involving a vehicle drawn by a commercial motor vehicle operated by the operator.

7. The results of any inspection under section 82 or 82.1 of the Act of a commercial motor vehicle operated by the operator or of a vehicle drawn by a commercial motor vehicle operated by the operator, and reported to the Registrar.

8. Any conviction related to the operation of a commercial motor vehicle or the drawing of a vehicle by a commercial motor vehicle, that is reported to the Registrar under section 210 of the Act.

9. The results of any investigation or review of the operator under the Act, the *Compulsory Automobile Insurance Act*, the *Dangerous Goods Transportation Act*, the *Public Vehicles Act*, the *Truck Transportation Act* or the *Motor Vehicle Transport Act* (Canada), that are reported to the Registrar.

10. Any action taken by another jurisdiction against the operator that is comparable to that described in any of paragraphs 1 to 9, if the Registrar receives notice of the action.

11. Any warning letters sent by, or interviews held with, Ministry officials before any action is taken under section 47 of the Act.

12. The operator's last recorded fleet size.

13. The total number of kilometres travelled in the previous 12 months by all the commercial motor vehicles operated by the operator in Ontario.

14. The total number of kilometres travelled in Ontario in the previous 12 months by all the commercial motor vehicles operated by the operator.

15. Any compilations or analyses of any of the information described in paragraphs 1 to 14.

6. (1) Every holder of a CVOR certificate shall notify the Registrar of the holder's fleet size for the previous 12 months,

(a) within 15 days of the day the holder's fleet size is 20 per cent greater or less than it was when the fleet size was last reported to the Registrar;

(b) within 15 days of receiving a request from the Registrar for the information.

(2) The holder of a CVOR certificate shall, upon request, give the Registrar documentation to support the holder's fleet size determination.

7. (1) Every holder of a CVOR certificate shall, within 15 days of receiving a request from the Registrar, notify the Registrar of the total number of kilometres travelled by all the commercial motor vehicles operated by the holder in Ontario in the previous 12 months.

(2) Every holder of a CVOR certificate shall, within 15 days of receiving a request from the Registrar, notify the Registrar of the total number of kilometres travelled in Ontario by all the commercial motor vehicles operated by the holder in the previous 12 months.



(3) The holder of a CVOR certificate shall, upon request, give the Registrar documentation to support the holder's determination of the number of kilometres travelled under subsection (1) or (2).

**8. Regulation 576 of the Revised Regulations of Ontario, 1990 and Ontario Regulation 354/96 are revoked.**

**9. This Regulation comes into force on the day on which section 6 of the Road Safety Act, 1996 (No. 2) comes into force.**

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#### ONTARIO REGULATION 425/97

made under the  
**GAME AND FISH ACT**

Made: November 27, 1997  
Filed: November 28, 1997

Amending Reg. 492 of R.R.O. 1990  
(Furs)

Note: Since January 1, 1997, Regulation 492 has been amended by Ontario Regulation 342/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Section 2 of Regulation 492 of the Revised Regulations of Ontario, 1990 is amended by adding the following subsections:**

(4) Despite subsections (1) and (3), a Nishnawbe-Aski First Nation fur harvesters licence to sell pelts and carcasses and a Trappers Authority issued by Grand Council Treaty #3 Trapping Resource Centre are deemed to be licences to hunt or trap or attempt to trap fur-bearing animals, until August 31, 1998.

(5) No fee is payable for a licence mentioned in subsection (4).

(6) Except as provided in this section, this Regulation applies with respect to a licence mentioned in subsection (4) as if it were a licence in Form 1.

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#### RÈGLEMENT DE L'ONTARIO 425/97

pris en application de la  
**LOI SUR LA CHASSE ET LA PÊCHE**

pris le 27 novembre 1997  
déposé le 28 novembre 1997

modifiant le Règl. 492 des R.R.O. de 1990  
(Fourrures)

Remarque : Depuis le 1<sup>er</sup> janvier 1997, le Règlement 492 a été modifié par le Règlement de l'Ontario 342/97. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. L'article 2 du Règlement 492 des Règlements refondus de l'Ontario de 1990 est modifié par adjonction des paragraphes suivants :**

(4) Malgré les paragraphes (1) et (3), le permis de capture d'animaux à fourrure de la Première nation Nishnawbe-Aski à des fins de vente de peaux et de carcasses et l'autorisation de piégeage délivrée par le centre de ressources dans le domaine du piégeage du Grand conseil visé par le Traité n° 3 sont réputés, jusqu'au 31 août 1998, des permis autorisant à chasser, à piéger ou à essayer de piéger des animaux à fourrure.

(5) Aucun droit n'est exigible à l'égard du permis visé au paragraphe (4).

(6) Sous réserve du présent article, le présent règlement s'applique à l'égard du permis visé au paragraphe (4) comme s'il s'agissait d'un permis rédigé selon la formule 1.

#### ONTARIO REGULATION 426/97

made under the  
**MUNICIPAL ACT**

Made: November 27, 1997  
Filed: November 28, 1997

Amending O. Reg. 143/96  
(Powers of the Minister or a Commission for the  
Implementation of a Restructuring Proposal)

Note: Since January 1, 1997, Ontario Regulation 143/96 has been amended by Ontario Regulations 76/97, 134/97 and 241/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Subsection 14 (2) of Ontario Regulation 143/96 is revoked and the following substituted:**

(2) The members of an interim council shall be determined,

#### RÈGLEMENT DE L'ONTARIO 426/97

pris en application de la  
**LOI SUR LES MUNICIPALITÉS**

pris le 27 novembre 1997  
déposé le 28 novembre 1997

modifiant le Règl. de l'Ont. 143/96  
(Pouvoirs du ministère ou d'une commission visant la mise  
en œuvre d'une proposition de restructuration)

Remarque : Depuis le 1<sup>er</sup> janvier 1997, le Règlement de l'Ontario 143/96 a été modifié par les Règlements de l'Ontario 76/97, 134/97 et 241/97. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. Le paragraphe 14 (2) du Règlement de l'Ontario 143/96 est abrogé et remplacé par ce qui suit :**

(2) Les membres du conseil intérimaire se déterminent, selon le cas :



(a) by holding a by-election under section 65 of the *Municipal Elections Act, 1996*, but no such by-election shall be held in a regular municipal election year; or

(b) by designating members of the councils of the municipalities any part of which existed in the locality before the restructuring proposal comes into effect.

(2.1) In the case of a restructuring proposal to annex unorganized territory to a municipality, the members of an interim council shall be determined,

(a) by holding a by-election under section 65 of the *Municipal Elections Act, 1996*, but no such by-election shall be held in a regular municipal election year;

(b) by designating members of the councils of the municipalities any part of which existed in the locality before the restructuring proposal comes into effect;

(c) by holding a special election to determine the members of the council elected from the unorganized territory within the locality before the restructuring proposal comes into effect in accordance with the procedure set out in section 14.1; or

(d) by a combination of the methods described in clauses (b) and (c).

(2.2) The members of an interim public utility commission shall be determined,

(a) by holding a by-election under section 65 of the *Municipal Elections Act, 1996*, but no such by-election shall be held in a regular municipal election year; or

(b) by designating members of the public utility commissions any part of which existed in the locality before the restructuring proposal comes into effect.

**2. Ontario Regulation 143/96 is amended by adding the following section:**

**14.1** (1) In the case of a restructuring proposal to annex unorganized territory to a municipality, a special election to determine the members of the council elected from the unorganized territory within the locality before the restructuring proposal comes into effect shall be held in accordance with this section.

(2) A person is eligible to vote in the special election if he or she is a Canadian citizen, at least 18 years old and,

(a) a permanent resident of the unorganized territory;

(b) an owner or tenant of property in the unorganized territory; or

(c) the spouse of an owner or tenant of property in the unorganized territory.

(3) A person may be nominated for office in the special election if he or she is a qualified elector under section 17 of the *Municipal Elections Act, 1996* and is not disqualified from holding the office under any Act.

(4) The following procedure shall be followed for the special election:

1. The clerk of the municipality with the greatest number of electors of the municipalities, any part of which existed in the locality before the restructuring proposal comes into effect, shall be responsible for conducting the special election.

a) par la tenue d'une élection partielle aux termes de l'article 65 de la *Loi de 1996 sur les élections municipales*, une telle élection ne devant toutefois pas être tenue au cours d'une année d'élection municipale ordinaire;

b) par la désignation de membres des conseils des municipalités dont n'importe quelle partie se trouvait dans la localité avant l'entrée en vigueur de la proposition de restructuration.

(2.1) Dans le cas d'une proposition de restructuration visant à annexer un territoire non érigé en municipalité à une municipalité, les membres du conseil intérimaire se déterminent, selon le cas :

a) par la tenue d'une élection partielle aux termes de l'article 65 de la *Loi de 1996 sur les élections municipales*, une telle élection ne devant toutefois pas être tenue au cours d'une année d'élection municipale ordinaire;

b) par la désignation de membres des conseils des municipalités dont n'importe quelle partie se trouvait dans la localité avant l'entrée en vigueur de la proposition de restructuration;

c) par la tenue d'une élection spéciale, conformément aux modalités énoncées à l'article 14.1, pour déterminer les membres du conseil élus dans le territoire non érigé en municipalité qui était situé dans la localité avant l'entrée en vigueur de la proposition de restructuration;

d) par une combinaison des méthodes visées aux alinéas b) et c).

(2.2) Les membres d'une commission de services publics intérimaire se déterminent par l'une ou l'autre des méthodes suivantes :

a) la tenue d'une élection partielle aux termes de l'article 65 de la *Loi de 1996 sur les élections municipales*, une telle élection ne devant toutefois pas être tenue au cours d'une année d'élection municipale ordinaire;

b) la désignation de membres des commissions de services publics dont relevait n'importe quelle partie de la localité avant l'entrée en vigueur de la proposition de restructuration.

**2. Le Règlement est modifié par adjonction de l'article suivant :**

**14.1** (1) Dans le cas d'une proposition de restructuration visant à annexer un territoire non érigé en municipalité à une municipalité, une élection spéciale est tenue conformément au présent article pour déterminer les membres du conseil élus dans le territoire non érigé en municipalité qui était situé dans la localité avant l'entrée en vigueur de la proposition de restructuration.

(2) Est habile à voter à une élection spéciale quiconque est citoyen canadien, est âgé d'au moins 18 ans et est, selon le cas :

a) résident permanent du territoire non érigé en municipalité;

b) propriétaire ou locataire d'un bien situé dans le territoire non érigé en municipalité;

c) le conjoint d'un propriétaire ou locataire d'un bien situé dans le territoire non érigé en municipalité.

(3) Peut être déclarée candidate à un poste lors de l'élection spéciale la personne qui a qualité d'électeur aux termes de l'article 17 de la *Loi de 1996 sur les élections municipales* et qui n'est pas inhabile à occuper le poste en question aux termes de toute loi.

(4) L'élection spéciale se tient selon les modalités suivantes :

1. Le secrétaire de la municipalité qui compte le plus grand nombre d'électeurs des municipalités, dont n'importe quelle partie se trouvait dans la localité avant l'entrée en vigueur de la proposition de restructuration, est chargé de la tenue de l'élection spéciale.

2. Nomination day for the special election must be at least 14 days before voting day.
  3. At least 14 days before nomination day, the clerk shall give notice of the offices for which persons may be nominated and of the nomination procedure as set out in this subsection.
  4. A person may be nominated for an office by filing a nomination in the clerk's office.
  5. If, after the close of nomination day, the number of candidates for an office is the same or less than the number to be elected, the clerk shall declare the candidate or candidates elected by acclamation.
  6. If any office remains vacant after the close of nomination day, section 45 of the Act applies if the number of members on council is sufficient to form a quorum.
  7. The clerk shall call a meeting for the purpose of conducting a vote for the special election.
  8. The meeting must be held in the unorganized territory or in an adjacent local municipality.
  9. The clerk must give at least 14 days notice of the meeting,
    - i. by publication in a newspaper that, in the opinion of the clerk, is of general circulation throughout the unorganized territory, or
    - ii. if the clerk is of the opinion that there is no such newspaper, by any other means which, in the opinion of the clerk, will give the persons who are eligible to vote adequate notice of the meeting.
  10. The notice of the meeting must set out,
    - i. the purpose of the meeting,
    - ii. where and when the meeting will be held, and
    - iii. a description of who may vote at the meeting.
  11. The meeting shall be chaired by the clerk.
  12. The clerk shall conduct a vote by the persons who attend the meeting to determine the members of the council elected from the unorganized territory. The clerk shall determine how to conduct the vote. The clerk shall record the results of the vote and the number of votes cast.
  13. The clerk shall announce the results of the vote. If two or more candidates who cannot both or all be declared elected to an office have received the same number of votes, the clerk shall choose the successful candidate or candidates by lot.
  14. The clerk shall retain the ballots and all other documents and materials related to the election until the successors of the persons elected at the special election held under this section have taken office.
- (5) The costs incurred in conducting the special election by the clerk of the municipality with the greatest number of electors shall be paid by that municipality.
  - (6) The municipality with the greatest number of electors shall pay the costs as soon as possible after its clerk has signed a certificate verifying the amount.
2. Le jour de la déclaration de candidature pour l'élection spéciale est au moins 14 jours avant le jour du scrutin.
  3. Au moins 14 jours avant le jour de la déclaration de candidature, le secrétaire donne un avis précisant les postes auxquels des personnes peuvent être déclarées candidates et les modalités de déclaration de candidature énoncées au présent paragraphe.
  4. Une personne peut être déclarée candidate à un poste en déposant une déclaration de candidature au bureau du secrétaire.
  5. Si, après la clôture du dépôt des déclarations de candidature le nombre de candidats à un poste est égal ou inférieur au nombre de candidats devant être élus à ce poste, le secrétaire déclare le ou les candidats élus sans concurrent.
  6. Si, après la clôture du dépôt des déclarations de candidature, un poste demeure vacant, l'article 45 de la Loi s'applique si le nombre de membres du conseil est suffisant pour atteindre le quorum.
  7. Le secrétaire convoque une réunion dans le but de tenir un vote aux fins de l'élection spéciale.
  8. La réunion se tient dans le territoire non érigé en municipalité ou dans une municipalité locale adjacente.
  9. Le secrétaire donne un avis de convocation de la réunion d'au moins 14 jours :
    - i. soit par publication dans un journal qui, selon lui, est généralement lu dans le territoire non érigé en municipalité,
    - ii. soit, s'il est d'avis qu'un tel journal n'existe pas, de toute autre manière qui, selon lui, donnera un avis de convocation adéquat aux personnes habiles à voter.
  10. Sont énoncés dans l'avis de convocation de la réunion :
    - i. l'objet de la réunion,
    - ii. les lieu, date et heure de la réunion,
    - iii. une description des personnes habiles à voter lors de la réunion.
  11. Le secrétaire préside la réunion.
  12. Le secrétaire tient un vote auprès des personnes présentes à la réunion afin de déterminer les membres du conseil élus dans le territoire non érigé en municipalité. Il détermine comment tenir le vote. Il consigne les résultats du vote et le nombre de suffrages exprimés.
  13. Le secrétaire annonce les résultats du vote. Si deux candidats ou plus qui ne peuvent être tous deux ou tous déclarés élus à un poste ont reçu le même nombre de suffrages, il choisit par tirage au sort le ou les candidats qui l'emportent.
  14. Le secrétaire garde les bulletins de vote ainsi que tout le matériel et tous les autres documents relatifs à l'élection jusqu'à ce que les successeurs des personnes élues lors de l'élection spéciale tenue aux termes du présent article soient entrées en fonction.
- (5) Les frais engagés pour la tenue de l'élection spéciale par le secrétaire de la municipalité qui compte le plus grand nombre d'électeurs sont payés par cette municipalité.
  - (6) La municipalité qui compte le plus grand nombre d'électeurs paie les frais aussitôt que possible après que son secrétaire a signé un certificat en attestant le montant.



**ONTARIO REGULATION 427/97**  
made under the  
**COURTS OF JUSTICE ACT**

Made: November 14, 1997  
Approved: November 27, 1997  
Filed: November 28, 1997

Amending Reg. 194 of R.R.O. 1990  
(Rules of Civil Procedure)

Note: Since January 1, 1997, Regulation 194 has been amended by Ontario Regulations 118/97 and 348/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. (1) Rule 69.24 of Regulation 194 of the Revised Regulations of Ontario, 1990 is amended by adding the following subrules:**

***Assigned Support Order***

(6.1) In an application under subrule (1) in respect of a support order that has at any time been assigned in accordance with subsection 20.1 (1) or its predecessor of the Act,

- (a) the applicant shall also serve the assignee of the support order with the applicant's notice of application, affidavit in support and financial statement; and
- (b) the respondent shall also serve the assignee with the respondent's notice of appearance, responding affidavit and financial statement.

(6.2) On delivering a notice of appearance, the assignee becomes a respondent to the extent of its financial interest.

(6.3) The assignee is not required to serve a financial statement.

(6.4) If the applicant does not serve the assignee as required by subrule (6.1), the court may at any time, on motion by the assignee on notice to the parties to the application, set aside an order made in the application so far as it deals with an issue in which the assignee has a financial interest.

(6.5) On a motion referred to in subrule (6.4), the burden of proving that the order should not be set aside is on the party who asked for the variation order.

(6.6) If the order made in the application is set aside, the assignee of the support order is entitled to solicitor and client costs of the motion to set aside, unless the court orders otherwise.

**(2) Subrule 69.24 (7) of the Regulation is amended by striking out "and" at the end of clause (f) and by adding the following clause:**

- (f.1) in an application to vary a support order, whether the support order was assigned and any particulars of the assignment known to the applicant; and

**2. Rule 70 of the Regulation is amended by adding the following rule:**

**VARIATION APPLICATION**

**70.08.1** Rule 69.24 (variation of final order) applies, with necessary modifications, in respect of a support order made under the *Family Law Act* or the *Reciprocal Enforcement of Support Orders Act* or a custody or access order under the *Children's Law Reform Act*.

**RÈGLEMENT DE L'ONTARIO 427/97**  
pris en application de la  
**LOI SUR LES TRIBUNAUX JUDICIAIRES**

pris le 14 novembre 1997  
approuvé le 27 novembre 1997  
déposé le 28 novembre 1997

modifiant le Règl. 194 des R.R.O. de 1990  
(Règles de procédure civile)

Remarque : Depuis le 1<sup>er</sup> janvier 1997, le Règlement 194 a été modifié par les Règlements de l'Ontario 118/97 et 348/97. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. (1) La règle 69.24 du Règlement 194 des Règlements refondus de l'Ontario de 1990 est modifiée par adjonction des paragraphes suivants :**

***Ordonnance alimentaire cédée***

(6.1) Lors d'une requête visée au paragraphe (1) relativement à une ordonnance alimentaire qui a été cédée à un moment quelconque conformément au paragraphe 20.1 (1) de la Loi ou à une disposition que celui-ci remplace :

- a) d'une part, le requérant signifie également au cessionnaire de l'ordonnance alimentaire son avis de requête, un affidavit à l'appui et un état financier;
- b) d'autre part, l'intimé signifie également au cessionnaire son avis de comparution, un affidavit de défense et un état financier.

(6.2) Le cessionnaire qui remet un avis de comparution devient un intimé dans la mesure de son intérêt financier.

(6.3) Le cessionnaire n'est pas tenu de signifier un état financier.

(6.4) En l'absence de signification par le requérant au cessionnaire conformément au paragraphe (6.1), le tribunal peut, en tout temps, sur motion présentée par le cessionnaire avec préavis aux parties à la requête, annuler l'ordonnance rendue à l'égard de la requête dans la mesure où elle traite d'une question dans laquelle le cessionnaire a un intérêt financier.

(6.5) Dans le cadre d'une motion visée au paragraphe (6.4), le fardeau de prouver que l'ordonnance ne devrait pas être annulée revient à la partie qui a demandé l'ordonnance de modification.

(6.6) Si l'ordonnance rendue à l'égard de la requête est annulée, le cessionnaire de l'ordonnance alimentaire a droit aux dépens procureur-client afférents à la motion en annulation, sauf ordonnance contraire du tribunal.

**(2) Le paragraphe 69.24 (7) du Règlement est modifié par adjonction de l'alinéa suivant :**

- f.1) dans une requête visant à faire modifier une ordonnance alimentaire, si cette ordonnance a été cédée ou non et, dans l'affirmative, donne toutes précisions que le requérant connaît au sujet de la cession.

**2. La Règle 70 du Règlement est modifiée par adjonction de la règle suivante :**

**REQUÊTE EN MODIFICATION**

**70.08.1** La règle 69.24 (modification d'une ordonnance définitive) s'applique, avec les adaptations nécessaires, à une ordonnance alimentaire qui a été rendue aux termes de la *Loi sur le droit de la famille* ou de la *Loi sur l'exécution réciproque d'ordonnances alimentaires* ou à une ordonnance accordant la garde d'un enfant ou le droit de visite qui a été rendue aux termes de la *Loi portant réforme du droit de l'enfance*.



**ONTARIO REGULATION 428/97**  
made under the  
**COURTS OF JUSTICE ACT**

Made: November 14, 1997  
Approved: November 27, 1997  
Filed: November 28, 1997

Amending Reg. 199 of R.R.O. 1990  
(Rules of the Ontario Court (Provincial Division)  
in Family Law Proceedings)

Note: Regulation 199 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Rule 57 of Regulation 199 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

**57. (1)** In this rule,

"originating document" means the application and notice of hearing in an application for a variation order or the answer in which a respondent asks for a variation order;

"responding document" means an answer in an application for a variation order or a reply to an answer in which a respondent asks for a variation order;

"variation application" means an application in which a party asks for a variation order;

"variation order" means an order that discharges, varies or suspends a custody or access order or current payments, arrears or interest under a support order.

(2) In a variation application, each party shall serve on every other party a financial statement in Form 6 and file it with proof of service.

(3) The originating document in a variation application shall set out,

- (a) the place of ordinary residence of the parties and the children;
- (b) the current marital status of the parties;
- (c) particulars of the change in circumstances relied on;
- (d) particulars of current custody and access arrangements and of any proposed change;
- (e) particulars of current support arrangements and any proposed change;
- (f) in an application to vary a support order, whether the support order was assigned and any particulars of the assignment known to the party asking for the variation order; and
- (g) particulars of any efforts to mediate the matters in issue or of any assessment in relation to custody or access.

(4) In a variation application in respect of a support order that has at any time been assigned in accordance with subsection 34 (3) of the *Family Law Act* or its predecessor,

(a) the party asking for the variation order shall also serve the assignee of the support order with the party's originating document and financial statement; and

(b) the other party shall also serve the assignee with that party's responding document and financial statement.

(5) On serving the parties with a notice stating that it has a financial interest in the variation application and filing the notice with proof of service, the assignee becomes a respondent to the extent of its financial interest.

(6) The assignee is not required to serve a financial statement.

(7) If the party asking for the variation order does not serve the assignee as required by subrule (4), the court may at any time, on motion by the assignee on notice to the parties to the variation order, set aside the variation order so far as it deals with an issue in which the assignee has a financial interest.

(8) On a motion referred to subrule (7), the burden of proving that the variation order should not be set aside is on the party who asked for the variation order.

(9) If the variation order is set aside, the assignee of the support order is entitled to solicitor and client costs of the motion to set aside, unless the court orders otherwise.

**2. (1) The English version of Form 5 of the Regulation is amended by adding at the end:**

If a support order has been assigned to a government agency, an application to change past or future support payments must also be served on that agency. If the agency is not served, it can have the changed order set aside and ask for costs.

**(2) The French version of Form 5 of the Regulation is amended by adding at the end:**

Si une ordonnance alimentaire a été cédée à un organisme gouvernemental, il faut signifier à celui-ci toute requête visant à faire modifier des versements d'aliments passés ou à venir. Si l'organisme ne reçoit pas signification d'une telle requête, il peut demander l'annulation de l'ordonnance modifiée, ainsi que les dépens.

**3. (1) The English version of Form 9 of the Regulation is amended by adding at the end of the last page:**

If a support order has been assigned to a government agency, a claim asking for a change to past or future support payments must also be served on that agency. If the agency is not served, it can have the changed order set aside and ask for costs.

**(2) The French version of Form 9 of the Regulation is amended by adding at the end of the last page:**

Si une ordonnance alimentaire a été cédée à un organisme gouvernemental, il faut signifier à celui-ci toute demande visant à faire modifier des versements d'aliments passés ou à venir. Si l'organisme ne reçoit pas signification de la demande, il peut demander l'annulation de l'ordonnance modifiée, ainsi que les dépens.

50/97

**ONTARIO REGULATION 429/97**  
made under the  
**COURTS OF JUSTICE ACT**

Made: November 14, 1997  
Approved: November 27, 1997  
Filed: November 28, 1997

Amending Reg. 202 of R.R.O. 1990  
(Family Court Rules)

Note: Regulation 202 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Rule 74 of Regulation 202 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

**74. (1)** In this rule,

“originating document” means the notice of motion and affidavit in support of a motion for a variation order, the application and notice of hearing in an application for a variation order or the answer in which a respondent asks for a variation order;

“responding document” means an affidavit in response to a motion for a variation order, an answer in an application for a variation order or a reply to an answer in which a respondent asks for a variation order;

“variation motion or application” means a motion or application in which a party asks for a variation order;

“variation order” means an order that discharges, varies or suspends a custody or access order or current payments, arrears or interest under a support order.

(2) In a variation motion or application, each party shall serve on every other party a financial statement in Form 9 and file it with proof of service.

(3) An affidavit in support of, or an originating document in, a variation motion or application shall set out,

- (a) the place of ordinary residence of the parties and the children;
- (b) the current marital status of the parties;
- (c) particulars of the change in circumstances relied on;
- (d) particulars of current custody and access arrangements and of any proposed change;
- (e) particulars of current support arrangements and any proposed change;
- (f) in a variation motion or application in respect of a support order, whether the support order was assigned and any particulars of the assignment known to the party asking for the variation order; and
- (g) particulars of any efforts to mediate the matters in issue or of any assessment in relation to custody or access.

(4) In a variation motion or application in respect of a support order that has at any time been assigned in accordance with subsection 20.1 (1) or its predecessor of the *Divorce Act* (Canada) or subsection 34 (3) of the *Family Law Act* or its predecessor,

- (a) the party asking for the variation order shall also serve the assignee of the support order with the party's originating document and financial statement; and
- (b) the other party shall also serve the assignee with that party's responding document and financial statement.

(5) On serving the parties with a notice stating that it has a financial interest in the variation motion or application and filing the notice with proof of service, the assignee becomes a responding party or respondent to the extent of its financial interest.

(6) The assignee is not required to serve a financial statement.

(7) If the party asking for the variation order does not serve the assignee as required by subrule (4), the court may at any time, on motion by the assignee on notice to the parties to the variation order, set aside the variation order so far as it deals with an issue in which the assignee has a financial interest.

(8) On a motion referred to in subrule (7), the burden of proving that the variation order should not be set aside is on the party who asked for the variation order.

(9) If the variation order is set aside, the assignee of the support order is entitled to solicitor and client costs of the motion to set aside, unless the court orders otherwise.

**2. Form 8 of the Regulation is amended by adding the following at the end:**

If a support order has been assigned to a government agency, an application to change past or future support payments must also be served on that agency. If the agency is not served, it can have the changed order set aside and ask for costs.

**3. Form 13 of the Regulation is amended by adding the following at the end of page 2 (Claim by Respondent against Applicant):**

If a support order has been assigned to a government agency, a claim asking for a change in past or future support payments must also be served on that agency. If the agency is not served, it can have the changed order set aside and ask for costs.

**4. Form 18 of the Regulation is amended by adding the following before the date and signature line:**

If a support order has been assigned to a government agency, a motion to change past or future support payments must also be served on that agency. If the agency is not served, it can have the changed order set aside and ask for costs.

50/97

**ONTARIO REGULATION 430/97**made under the  
**ARCHITECTS ACT**Made: October 20, 1997  
Approved: November 27, 1997  
Filed: November 28, 1997Amending Reg. 27 of R.R.O. 1990  
(General)

Note: Regulation 27 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Sections 31 and 32 of Regulation 27 of the Revised Regulations of Ontario, 1990 are revoked and the following substituted:**

31. For the purposes of clause 13 (1) (d) of the Act, the following are the academic and experience requirements for the issuance of a licence to a person:

1. The person must hold a degree in architecture from a post-secondary institution or must have successfully completed the Royal Architectural Institute of Canada Syllabus.
2. The person must hold a Certificate of Certification issued by the Canadian Architectural Certification Board.
3. The person must have completed the admission course offered by the Association.

4. The person must have successfully completed the Architect Registration Examination of the National Council of Architectural Registration Boards.

5. The person must have completed a total of 5600 hours of experience that meets the requirements of the Intern Architect Program published by the Association. The experience must include,

- i. at least 940 hours of experience in Ontario under the personal supervision and direction of a person licensed to engage in the practice of architecture in Ontario, which must be completed within the three years before the date on which the person applies for the licence, and
- ii. at least 2780 additional hours of experience under the personal supervision and direction of a person authorized to engage in the practice of architecture.

**2. This Regulation comes into force on January 1, 1998.**

COUNCIL OF THE ONTARIO ASSOCIATION OF ARCHITECTS:

JAMES J. NOWSKI  
*President*

I. HILLEL ROEBUCK  
*Registrar*

Dated on October 20, 1997.

50/97

**ONTARIO REGULATION 431/97**made under the  
**HEALTH CARDS AND NUMBERS CONTROL ACT, 1991**Made: November 27, 1997  
Filed: November 28, 1997Amending O. Reg. 147/91  
(General)

Note: Ontario Regulation 147/91 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. (1) Paragraph 2 of section 1 of Ontario Regulation 147/91 is revoked and the following substituted:**

2. The Canadian Institute for Health Information.

**(2) Section 1 of the Regulation is amended by adding the following paragraph:**

7. Cancer Care Ontario.

50/97

**RÈGLEMENT DE L'ONTARIO 431/97**pris en application de la  
**LOI DE 1991 SUR LE CONTRÔLE DES CARTES SANTÉ  
ET DES NUMÉROS DE CARTES SANTÉ**pris le 27 novembre 1997  
déposé le 28 novembre 1997modifiant le Règl. de l'Ont. 147/91  
(Disposition générale)

Remarque : Le Règlement de l'Ontario 147/91 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. (1) La disposition 2 de l'article 1 du Règlement de l'Ontario 147/91 est abrogée et remplacée par ce qui suit :**

2. L'Institut canadien d'information sur la santé.

**(2) L'article 1 du Règlement est modifié par adjonction de la disposition suivante :**

7. La personne morale connue sous le nom de «Action Cancer Ontario».



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### Information

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THE ONTARIO GAZETTE  
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LA GAZETTE DE L'ONTARIO paraît chaque samedi, et les annonces à y insérer doivent parvenir à ses bureaux le jeudi à 16 h au plus tard, soit au moins neuf jours avant la parution du numéro dans lequel elles figureront.

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# The Ontario Gazette La Gazette de l'Ontario

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## Parliamentary Notice—Royal Assent Avis parlementaire—sanction royale

### THE PROVINCE OF ONTARIO

Toronto, Monday, December 8, 1997

3:03 p.m.

In the name of Her Majesty the Queen, Her Honour the Lieutenant Governor assented to the following bills in her office: —

- Bill 98 An Act to promote job creation and increase municipal accountability while providing for the recovery of development costs related to new growth.  
[S.O. 1997, Chapter 27]
- Bill 140 An Act to establish the Financial Services Commission of Ontario and to make complementary amendments to other statutes.  
[S.O. 1997, Chapter 28]
- Bill 149 An Act to continue the reforms begun by the Fair Municipal Finance Act, 1997 and to make other amendments respecting the financing of local government.  
[S.O. 1997, Chapter 29]
- Bill 152 An Act to improve Services, increase Efficiency and benefit Taxpayers by eliminating Duplication and reallocating Responsibilities between Provincial and Municipal Governments in various areas and to implement other aspects of the Government's "Who Does What" Agenda.  
[S.O. 1997, Chapter 30]
- Bill 160 An Act to reform the education system, protect classroom funding, and enhance accountability, and make other improvements consistent with the Government's education quality agenda, including improved student achievement and regulated class size.  
[S.O. 1997, Chapter 31]

### Bill 161

An Act to provide fairness for parents and employees by providing remedies relating to the province-wide withdrawal of services by teachers between October 27 and November 7, 1997 and to make a complementary amendment to the Education Act.  
[S.O. 1997, Chapter 32]

### Bill 167

An Act to change the name of the geographic township of Creighton in the Territorial District of Sudbury to Creighton-Davies, and to make a consequential amendment to the Territorial Division Act.  
[S.O. 1997, Chapter 33]

(6125) 51

CLAUDE L. DESROSIER,  
Clerk of the Legislative Assembly.

### PROVINCE DE L'ONTARIO

Toronto, vendredi 8 décembre 1997

3 h 03

Au nom de Sa Majesté la Reine, Son Honneur la lieutenant-gouverneure a accordé la sanction royale aux projets de loi a son bureau :

- Projet de loi 98 Loi visant à promouvoir la création d'emplois et à accroître la responsabilité des municipalités tout en prévoyant le recouvrement des coûts d'aménagement liés à la croissance  
[L.O. 1997, Chapitre 27]
- Projet de loi 140 Loi créant la Commission des services financiers de l'Ontario et apportant des modifications complémentaires à d'autres lois.  
[L.O. 1997, Chapitre 28]

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2793





Projet de loi 149	Loi continuant les réformes amorcées par la Loi de 1997 sur le financement équitable des municipalités et apportant d'autres modifications relativement au financement des administrations locales. [L.O. 1997, Chapitre 29]	du rendement des élèves et la réglementation de l'effectif des classes. [L.O. 1997, Chapitre 31]
Projet de loi 152	Loi visant à améliorer les services, à accroître l'efficacité et à procurer des avantages aux contribuables en éliminant le double emploi et en redistribuant les responsabilités entre le gouvernement provincial et les municipalités dans divers secteurs et visant à mettre en oeuvre d'autres aspects du programme « Qui fait quoi » du gouvernement. [L.O. 1997, Chapitre 30]	Projet de loi 161 Loi favorisant le traitement équitable des parents et des employés en prévoyant des recours à la suite du retrait de services par les enseignants à l'échelle de la province entre le 27 octobre et le 7 novembre 1997 et apportant une modification complémentaire à la Loi sur l'éducation. [L.O. 1997, Chapitre 32]
Projet de loi 160	Loi visant à réformer le système scolaire, à protéger le financement des classes, à accroître l'obligation de rendre compte et à apporter d'autres améliorations compatibles avec la politique du gouvernement en matière de qualité de l'éducation, y compris l'amélioration	Projet de loi 167 Loi visant à remplacer le nom du canton géographique de Creighton dans le district territorial de Sudbury par celui de Creighton-Davies, et apportant une modification corrélative à la Loi sur la division territoriale. [L.O. 1997, Chapitre 33]

(6126) 51

Le greffier de l'Assemblée législative,  
CLAUDE L. DESROSIERS

## Motor Vehicle Transport Act/Truck Transportation Act Loi sur les transports routiers/Loi sur le camionnage

The following are applications for operating licences under the *Truck Transportation Act*, R.S.O. 1990, Chapter T.22, and/or the *Motor Vehicle Transport Act*, 1987, Chapter 35. The applicants have met the fitness requirements pursuant to Section 6 of the *Truck Transportation Act* and/or Section 8(2) of the *Motor Vehicle Transport Act*, 1987 and the provincial transport board and/or the Registrar of Motor Vehicles proposes to issue the licences if no written objection is served on the applicant and filed with the Registrar of Motor Vehicles, within thirty days of this publication.

The following applicants have applied for Authority to offer a transportation service for the carriage of Goods:

On trouvera ci-après la liste des demandes de permis d'exploitation présentées en vertu de la *Loi sur le camionnage*, L.R.O. 1990, chapitre T.22, et/ou la *Loi de 1987 sur les transports routiers*, L.C. 1987, chapitre 35. On a jugé que les personnes ayant présenté ces demandes se conformaient aux critères d'aptitude prévus au paragraphe 8(2) de la *Loi de 1987 sur les transports routiers* et l'office des transports de l'Ontario et/ou le registraire des véhicules automobiles dans les trente jours suivant la publication des présentes.

Les personnes suivantes ont demandé l'autorisation d'offrir des services de transport de marchandises à destination.

ADADE, SAMUEL  
ETOBICOKE, ON

ALL STAR TRUCKING INC  
CLARKSVILLE, IN

ALLMINE TRUCKING LTD.  
CAMBRIDGE, ON

BURK, A-BRUCE  
ALGOMA MILLS, ON

C. MALLOW TRANSPORT LTD.  
SASKATOON, SK

CORPORATE EXPRESS DELIVERY  
SYSTEMS-NORTHEAST INC.  
TROY, NY

DAULT, DENNIS, P.  
LEAMINGTON, ON

DENAUT, RONALD, G.  
THOROLD, ON

DICK JONES TRUCKING  
POWELL, WY

DUCHARME, GREGORY, L.  
OMPAH, ON

DYNATRANS INC  
TORONTO, ON

E.J.R. RELOAD INC.  
WINNIPEG, MB

FAB EXPRESS INC.  
HINSDALE, IL

FERGUSON, ROBERT, L.  
MOUNT HOPE, ON

GESTON CHARLO INC.  
TROIS-RIVERES, QC

GORICANEC, RICHARD, STEVEN/  
GORICANEC, STJEPAN  
PICKERING, ON

KENYON, ERROL  
BRAMALEA, ON

LEWIN, RUDOLPH, M.  
AJAX, ON

MEZZATESTA, ALBERT, M.  
AYR, ON

OSBORNE TRUCKING LTD.  
REGINA, SK

POZA CORPORATION  
MISSISSAUGA, ON

PRESSWOOD, JAY, D.  
ORANGEVILLE, (D), ON

REA, BENNY  
HAMILTON, ON

SAHARA TRANSPORTS INC.  
ST LAURENT, QC

SJU TRANSPORTATION LTD  
NEWCASTLE, ON

WAGLER, MURRAY, J.  
MILLBANK, ON

1073198 ONTARIO LIMITED  
NIAGARA FALLS, ON

1253658 ONTARIO INC.  
WOODSTOCK, ON

1255196 ONTARIO INC.  
ETOBICOKE, ON

1256968 ONTARIO INC.  
TIMMINS, ON

1266455 ONTARIO LIMITED  
BRAMALEA, ON

2954-7627 QUEBEC INC  
VAL D'OR, QC

623845 ONTARIO INC  
PORT PERRY, ON

747764 ALBERTA LTD.  
CALGARY, AB

9015-6258 QUEBEC INC  
THETFORD MINES, QC

9021-0584 QUEBEC INC  
ST-GEORGES, QC

9047-9569 QUEBEC INC  
ST JEROME, QC

J. Greig Beatty  
Chef de Service  
Manager

## ONTARIO HIGHWAY TRANSPORT BOARD

## NOTICE

It will **not** be necessary for holders of public vehicle (school bus) or extra-provincial operating licences to make applications to the Board to update their operating licences to include any newly amalgamated School Board(s). Current operating licences that are licensed to serve the old Board(s) are also authorized to serve the new amalgamated Board(s).

Felix D'Mello  
Board Secretary

## NOTICE

**Periodically, temporary applications are filed with the Board. Details of these applications can be made available at anytime to any interested parties by calling (416) 326-6732.**

The following are applications for extra-provincial and public vehicle operating licenses filed under the *Motor Vehicle Transport Act, 1987*, and the *Public Vehicles Act*. All information pertaining to the applicant i.e. business plan, supporting evidence, etc. is on file at the Board and is available upon request.

Any interested person who has an economic interest in the outcome of these applications may serve and file an objection within 29 days of this publication. The objector shall:

1. complete a Notice of Objection Form,
2. serve the applicant with the objection,
3. file a copy of the objection and provide proof of service of the objection on the applicant with the Board,
4. pay the appropriate fee.

Serving and filing an objection may be effected by hand delivery, mail, courier or facsimile. Serving means the date received by a party and filing means the date received by the Board.

**LES LIBELLÉS DES DEMANDES PUBLIÉES CI-DESSOUS SONT AUSSI DISPONIBLES EN FRANÇAIS SUR DEMANDE.**

**Antonio E. Maristanes** 45577  
o/a AM Commercial  
125 Vaughan Rd., #15, Toronto, Ont. M6C 2L9

Applies for an extra-provincial operating licence as follows:

For the transportation of passengers on a chartered trip from points in the Regional Municipalities of Peel, Durham, York, Hamilton-Wentworth and Halton and Metropolitan Toronto to the Ontario/Manitoba, Ontario/Québec and Ontario/U.S.A. border crossings for furtherance to points as authorized by the relevant jurisdiction and for the return of the same passengers on the same chartered trip to point of origin;

## PROVIDED THAT:

1. there shall be no pick-up or discharge of passengers except at point of origin;
2. the licensee be restricted to the use of Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54.

45577-A

Applies for a public vehicle operating licence as follows:

For the transportation of passengers on a chartered trip from points in the Regional Municipalities of Peel, Durham, York, Hamilton-Wentworth and Halton and Metropolitan Toronto.

PROVIDED that the licensee be restricted to the use of Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54.

**Jose G. Rebelo**  
o/a Milton Coach Lines  
9 Seminole Dr., Brampton, Ont. L6W 3Y7

45578 &amp; 45578-A

Applies for the approval of the transfer of extra-provincial operating licence No. X-1753 and public vehicle operating licence No. PV-2323 now in the name of Howie Scannell Enterprises Limited located at 862 Main St. E., Milton, Ont. L9T 3Z3.

**Royal Canadian Travel Inc.** 45580  
5800 Sheppard Ave. E., Unit 8,  
Scarborough, Ont. M1B 5J7

Applies for an extra-provincial operating licence as follows:

- I. For the transportation of passengers on a chartered trip from points in the Regional Municipalities of Ottawa-Carleton, Peel and York and Metropolitan Toronto to the Ontario/Manitoba, Ontario/Québec and Ontario/U.S.A. border crossings:
  1. for furtherance to points as authorized by the relevant jurisdiction and for the return of the same passengers on the same chartered trip to point of origin;  
PROVIDED THAT there shall be no pick-up or discharge of passengers except at point of origin;
  2. on a one way chartered trip to points as authorized by the relevant jurisdiction.
- II. For the transportation of passengers on a chartered trip from points in the Province of Quebec as authorized by the Province of Quebec from the Ontario/Québec border crossings:
  1. to points in Ontario and for the return of the same passengers on the same chartered trip to point of origin.  
PROVIDED THAT there be no pick-up or discharge of passengers except at point of origin.
  2. to points in Ontario on a one way chartered trip without pick-up of passengers in Ontario.
- III. For the transportation of passengers on a chartered trip from points in the United States of America as authorized by the relevant jurisdiction from the Ontario/U.S.A. border crossings:
  1. to points in Ontario and for the return of the same passengers on the same chartered trip to point of origin.  
PROVIDED THAT there be no pick-up or discharge of passengers except at point of origin.
  2. to points in Ontario on a one way chartered trip without pick-up of passengers in Ontario.

## PROVIDED THAT:

- a) the licensee be restricted to the use of Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54, each having a maximum seating capacity of (7) passengers exclusive of the driver;
- b) all such passengers shall have had a prior movement by air from the Orient to points of origin and a subsequent movement by air at point of destination.

45580-A

Applies for a public vehicle operating licence as follows:

For the transportation of passengers on a chartered trip from points in the Regional Municipalities of Ottawa-Carleton, Peel and York and Metropolitan Toronto.

## PROVIDED THAT:

- a) the licensee be restricted to the use of Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54, each having a maximum seating capacity of (7) passengers exclusive of the driver;
- b) all such passengers shall have had a prior movement by air from the Orient to points of origin and a subsequent movement by air at point of destination.

Felix D'Mello  
Board Secretary  
Secrétaire de la Commission



## Government Notices Respecting Corporations Avis du gouvernement relatifs aux compagnies

### Corrected Certificates of Amalgamation Certificat de fusion rectifié

NOTICE IS HEREBY GIVEN that, a certificate of amalgamation under the *Business Corporations Act*, has been endorsed: The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LES PRÉSENTES de la délivrance d'un certificat de fusion rectifié en vertu de la *Loi sur les sociétés par actions*. (La date d'entrée en vigueur précède la liste des compagnies visées.)

Name of Amalgamating Corporation:	Ontario Corporation Number
Amalgamating Corporations	
Dénomination sociale de la	
société issue de la fusion et	
des sociétés ayant fusionné :	Numéro matricule de l'Ontario

#### 1996-9-19

CANADIAN NEWSPAPER SERVICES INTERNATIONAL  
LIMITED ..... 1185495  
BMG MARKETING INC., CANADIAN NEWSPAPER  
SERVICES INTERNATIONAL LIMITED

51/97

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

### Certificates of Dissolution Certificats de dissolution

NOTICE IS HEREBY GIVEN that a certificate of dissolution under the *Business Corporations Act*, has been endorsed: The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément à la *Loi sur les compagnies*, un certificat de dissolution a été inscrit pour les compagnies suivantes : la date d'entrée en vigueur précède la liste des compagnies visées.

Name of Corporation:	Ontario Corporation Number
Dénomination sociale	Numero de la
de la compagnie :	compagnie en Ontario

#### 1997-11-25

1029956 ONTARIO INC. .... 1029956  
1142716 ONTARIO INC. .... 1142716

#### 1997-11-26

CELESTIAL CINEMA CO. LTD. .... 946038  
GREEN CONTRACT PRODUCTIONS LIMITED ..... 946039  
472958 ONTARIO INC. .... 472958  
892202 ONTARIO LTD. .... 892202

#### 1997-11-27

AHL AVIATION HYDRAULICS LTD. .... 859199  
D N LIGHTING LTD. .... 1145688

#### 1997-11-28

ARTHUR HARRISON REAL ESTATE LIMITED. .... 257858  
CALOR MECHANICAL CONTRACTING LIMITED ..... 466970  
CALOR MECHANICAL LIMITED ..... 206528  
CLASSY NAILS STUDIO INC. .... 1176249  
WALP HOLDINGS LIMITED ..... 1025278

#### 1997-11-30

JACKSON AGRICULTURAL PRODUCTS LTD. .... 1062780

Name of Corporation:	Ontario Corporation Number
Dénomination sociale	Numero de la
de la compagnie :	compagnie en Ontario

#### 1997-12-1

CHINA TEXTILES GROUP (CANADA) LTD. .... 1032770  
HILLHURST HOLDINGS INC. .... 950586  
NETMIRRORS INC. .... 819682  
RELIANCE REALTY ASSOCIATES INC. .... 687351  
SUBERT INVESTMENTS LIMITED ..... 226204  
904829 ONTARIO LIMITED. .... 904829  
1020060 ONTARIO LTD. .... 1020060  
1093150 ONTARIO LTD. .... 1093150

#### 1997-12-2

COMPLETE AUTO RENTAL INC. .... 1015539  
LOWTHIAN, SHAROUN INSURANCE ADJUSTERS

LIMITED ..... 789781  
RICHARDS NEILANDS LIMITED ..... 86063  
TRAPPER JOE'S WILDERNESS OUTFITTERS LTD. .... 1123690  
642344 ONTARIO INC. .... 642344  
660209 ONTARIO LIMITED. .... 660209  
708053 ONTARIO INC. .... 708053

#### 1997-12-3

CMP REALTY INC. .... 1171093  
JAGTON INTERNATIONAL PROJECT

DEVELOPMENTS INC. .... 1249471  
THE PURPLE HUTS LTD. .... 1034344  
TINDALL SHOES LIMITED ..... 298425  
1043081 ONTARIO INC. .... 1043081

#### 1997-12-5

BONNIE FASHION ACCESSORIES COMPANY LTD. .... 998368  
HARRODS (CANADA) LIMITED ..... 94828  
797685 ONTARIO LIMITED. .... 797685

51/97

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

### Cancellations for Cause (Business Corporations Act) Annulation à juste titre (Loi sur les sociétés par actions)

NOTICE IS HEREBY GIVEN that, by orders under Section 240 of the *Business Corporations Act*, the certificates set out hereunder have been cancelled for cause and in the case of certificates of incorporation the corporations have been dissolved: The effective date of cancellation precedes the corporation listing.

AVIS EST DONNÉ PAR LES PRÉSENTES qu'en vertu de l'article 240 de la *Loi sur les sociétés par actions*, les certificats des sociétés énumérées ont été annulés pour un motif suffisant et, dans le cas de certificats de constitution, les sociétés ont été dissoutes. (La date de l'annulation précède la liste des sociétés visées.)

Name of Corporation:	Ontario Corporation Number
Dénomination sociale :	Numéro matricule de l'Ontario

#### 1997-12-9

CARD INDUSTRIES INC. .... 943014  
MERCANA INDUSTRIES LTD. .... 1133513

51/97

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies



## Notice of Default in Complying with the Corporations Tax Act Avis d'inobservation de la loi sur les corporations

The Director has been notified by the Minister of Revenue that the following corporations are in default in complying with the *Corporations Tax Act*.

NOTICE IS HEREBY GIVEN under subsection 241 (1) of the *Business Corporations Act*, that unless the corporations listed hereunder comply with the requirements of the *Corporations Tax Act* within 90 days of this notice, orders will be made dissolving the defaulting corporations. All enquiries concerning this notice are to be directed to Corporations Tax Branch, Ministry of Revenue, 33 King Street West, Oshawa, Ontario, L1H 8H6.

Le ministre du Revenu a informé l'administrateur unique que les compagnies suivantes n'avaient pas respecté la *Loi sur l'imposition des personnes morales*.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément au paragraphe 241 (1) de la *Loi sur les compagnies*, si les compagnies citées ci-dessous ne se conforment pas aux prescriptions énoncées par la *Loi sur l'imposition des personnes morales* dans un délai de 90 jours suivant la réception du présent avis, lesdites compagnies se verront dissoutes par décision. Pour tout renseignement relatif au présent avis, veuillez vous adresser à la Direction de l'imposition des compagnies, ministère du Revenu, 33, rue King ouest, Oshawa (Ontario) L1H 8H6.

Name of Corporation:	Ontario Corporation Number
Dénomination sociale	Numero de la
de la compagnie :	compagnie en Ontario

KALOHORI INCORPORATED .....	536413
SERI-TECH CANADA INC. ....	1026694

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

51/97

## Change of Name Act Loi sur le changement de nom

NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending November 7, 1997. The listing below shows the previous name followed by the new name.

AVIS EST DONNÉ PAR LES PRÉSENTES que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 7 novembre 1997. La liste ci-dessous indique les anciens noms suivis les nouveaux noms.

Abdulkhaliq Hussain, Shaho — Dilan, Shawn  
Abdullah, Said Hamid — Demirci, Said  
Afik, Taliah Tzipporah — Tenenbaum, Taliah Tzipporah  
Agudelo Monsalve, Olga Lucia — Zizovski, Olga Lucia  
Aguilan, Joselito Felipe — Aguilar, Joselito Felipe  
Ahmed, Ibrahim — Salman, Ibrahim Mohammed Abdulrahman  
Ahmed  
Ahmed, Mohammed Abdulrahman — Salman, Mohammed  
Abdulrahman Ahmed  
Albright, Victoria Leeanne — Albright-Jackson, Victoria Leeanne  
Ali, Atia Tasneem Ridia — Ali, Atia Tasneem  
Ali, Mohammed Sadmum Rafid — Ali, Arfan Rafid  
Allaway, Elizabeth Thorp Ballard — Ballard, Elizabeth Thorp  
Antrobus, Simone Phyllis Audrey — Myles, Simone Phyllis Audrey  
Armstrong, Judy Muriel — Paterson, Judy Muriel  
Arseneau, Jean-Rey Joseph — Arseneau, Jean-Ray  
Balachandran, Thevy — Balachandran, Vimaladevi  
Balasubramanyam, Roopa — Kodur, Roopa  
Ball, Gordon John Raymond — Walker, Gordon John Raymond  
Banks, Penny Leah — Barr, Penny Leah  
Belanger, Carolyn Bonita — Fava, Carmela Marie  
Ben Hassine, Nadia — Chartrand, Nadia  
Benjamin Khiarbeik, Jaklin — Aslani Aliabadi, Jaklin  
Benko, Kimberly Helen — Stevens, Kimberly Helen  
Benn, Pamela Elaine — Ruttan, Pamela Elaine  
Berberova, Janeta Ivanova — Staykov, Janeta Ivanova  
Berry, Elizabeth Edith — Berry Nekkers, Elizabeth Edith  
Bisch, Stacy Lynn — Waters, Stacy Lynn  
Blachford, Irene Isobel Smith — Blachford, Irene Paterson  
Blunck, Constance Jane — Vernon, Constance Jane  
Bonte, Michelle — Preston, Michelle  
Bontrager, Frieda Mae — Herschberger, Frieda Mae  
Bourbonniere, Johanne Marie Emilienne — Wilner, Johanne Marie  
Emilienne  
Bradley, Bernadine Kathryn — Hipkin, Bernadine Kathryn  
Braga, Jose Manuel De Moura — Braga, Joseph Manuel  
Broder, Peter David Edward Jr. — Broder, Peter David Edward  
Brown, Arnold Keith — Hoare, Arnold Keith  
Burgess, Diane Marjory — Gordon, Diane Marjory  
Butlin, Helen Janette — Butlin-Battler, Helen Janette  
Caceres Vasquez, Juan Eusebio — Cavas, David  
Campbell, Jennifer Anne — Spurgeon, Jennifer Anne  
Castillo, Bertha Lilian — Ferrufino, Bertha Lilian  
Chambers, Ann Marie — Chambers-Smith, Ann Marie  
Chan, Siu Chun — Chan, Cindy Siu Chun  
Chandra, Victor Nitesh — Maharaj, Victor Nitesh  
Chau, Chi Yan — Chau, Chi Yan Cassandra  
Chin-Cheong, Kathryn Ann — Seow, Kathryn Ann  
Chrnie, Edward — Cernick, Edward George  
Chun, Clint Uhijinn — Jeon, Clint Uhijinn  
Chun, Suzan — Jeon, Suzan  
Chun, Yong-Joo — Jeon, Thomas  
Chun, Young Ok — Jeon, Young Ok  
Ciszek, Elzbieta Halina — Gajdosz, Elzbieta Halina  
Claver, Marita — Haramina, Marita  
Cogger, Dale Kenneth — Cogger, Dale Kenneth Cox  
Collingridge, Edward Gurth — Sibbick, Edward David  
Collingridge, Kassandra Annie — Sibbick, Kassandra Annie  
Constantine, Angela Rathini — Benildus, Angela Rathini  
Cota, Cherine — Muirhead, Cherine  
Coz, Gaynor — Sword, Gaynor Sydney  
Crews, Lorina Marie — Mastin, Lorina Marie  
Crowe, Mechel Ann Marie — Julius, Mechel Ann Marie  
Da Silva, Maria De Jesus Soares — Thornbush, Mary Jessica

## Credit Unions and Caisses Populaires Act (Certificate of Amendment of Articles Issued) Loi sur les caisses populaires et les credit unions (Certificat de modification des statuts)

NOTICE IS HEREBY GIVEN that, under the *Credit Unions and Caisses Populaires Act*, amendments to articles have been effected as follows:

AVIS EST PAR LES PRÉSENTES DONNÉ qu'en vertu de la *Loi sur les caisses populaires et les credit unions*, les modifications des statuts ont été apportées comme suit :

Date of Incorporation:	Name of Corporation:	Effective Date
Date de constitution :	Nom de la compagnie :	Date d'entrée en vigueur
1949-6-25	Member Savings Credit Union Limited (formerly L.C.B.O. Employees' (Toronto) Credit union Limited)	1997-12-8

JOHN M. HARPER,  
Director  
Credit Unions and Co-operatives Services Branch  
Ministry of Finance  
Directeur  
Direction des caisses populaires et des coopératives  
Ministère des Institutions Financières

51/97

- Da Silva, Silvina Dos Anjos — Thornbush, Sylvia Emily  
 Darbyson, Paul Bradley — Gentleman, Paul Bradley  
 De Abreu, Nadia Elizabeth — Vieira, Nadia Elizabeth  
 De Paola, Maria Christina — Wiggers, Maria Christina  
 Deoliveira, Sharon — Deoliveira Barros, Sharon  
 Derouchie, Lisa May — Brojban, Lisa May  
 Dickie, Alexis Marion — Fillion, Alexis Marion  
 Dickie, Kaitlin Grace — Fillion, Kaitlin Grace  
 Diep, Quoc Chong — Yip, Duncan  
 Donches, Jenni Michelle — Maguire, Jenni Michelle  
 Donofrio, Congezio — Donofrio, Ken  
 Drayton, Andrea Rebecca — Berry, Andrea Rebecca  
 Dudumis, Anastasios — Simeonidis, Anastasios  
 Duffield, Katherine Elizabeth — Barraclough, Katherine Elizabeth  
 Duffin, Jennifer Anne — Grant, Jennifer Anne  
 Edgar, Marla Marie — Cosburn, Marla Marie  
 Elexanian, Sasha-Sevana — Alexanian, Sasha-Sevana  
 Foster, David James Emmerson — Sheard, David Edward  
 Fu, Lisha — Naylor, Lisha  
 Gabriel, Yisrael Daniel — Dreamwalker, Yisra'el Wolf  
 Gallant, Hope Gloria Anne — Coulter, Hope Gloria Anne  
 Ghamami, Panteha — Ghamami, Patricia  
 Ghebrekristos, Gebreamlak Hailemichael — Gebray, H. Michael  
 Gilmour, Robyn Elizabeth — Sherwood, Robyn Elizabeth  
 Glandon, Marie Monique Suzanne — Kerr, Marie Monique Suzanne  
 Glubisz, Alicja — Wendt, Alicja  
 Goodwin, Kimberly Ann — Myers, Kimberly Ann  
 Gray, Owen Daniel — Monaco, Owen Anthony  
 Grewal, Surjit Kaur — Gill, Surjit Kaur  
 Guay, Stephanie Marie — Junkin, Stephanie Marie  
 Gyles, Pamela Angella — Watson, Pamela Angella  
 Hall, Beverley Patricia — Kobal, Beverley Patricia  
 Harry, Nipnarine — Harry, Martin  
 Hayer, Charn Kaur — Brar, Charn Kaur  
 He, Ann — Ho, Jackelyn Ann  
 He, Shaomu — Ho, Dwight  
 Henry, Patrice Rose — McLean, Patrice Rose  
 Hie, Helen Cynthia Marlene — Greco, Helen Cynthia Marlene  
 Hill, Maureen Ruth — Hunter, Maureen Ruth  
 Hillier, Holly Jeanne — Larocque, Holly Jeanne  
 Huffman, Alison Frances Catherine — Holmes, Alison Frances Catherine  
 Huynh, Angeline — Wong, Angeline  
 Huynh, Thang Quang — Wong, Thang Quang  
 Irving, Alice Charlene — Gerrard, Alice Charlene  
 Jaundoo, Nicola Sharda — Gajju, Nicola Sharda  
 Johnson, Cynthia Ann — Long, Cynthia Ann  
 Johnston, Susan Echo — Miller, Susan Echo  
 Johnup, Caroline Ruth — Derouin, Caroline Ruth  
 Jones, Patricia Ann — Hajsaniuk, Patricia Ann  
 Karimi, Saadolla Saaid Karamat — Puyan, Arvin  
 Khabazbashar, Fatemeh — K. Bashar, Sally  
 Khan, Sumbul Afshan — Sayani, Sumbul Afshan  
 King, Lisa Laurine — Farrow, Lisa Laurine  
 Kucharek, Anna — Kozlowski, Anna  
 Kutzner, Irene Bernice — Bilicz, Irene Bernice  
 Lafreniere, Ronald — Buttineau, Ronald  
 Lai, For — Lai, Anthony Wendell  
 Lam, Nai Sum — Lam, Lawrence Ki Fung  
 Lauzon, Clint Brian — Degarie, Clint Brian  
 Leger, Joseph — Struthers, Rheal Joseph  
 Leslie, Joan Arlene — Biro, Joan Arlene  
 Li, Feng May — Ku, Feng May  
 MacLeod, Kristen Lee — Wixon, Kristen Lee  
 Mahendran, Sugirtha — Pratheep-Ananth, Sugirtha  
 Margetts, Sara-Lynne Christine — Leask, Sara-Lynne Christine  
 Martini, Juliette — Paesano, Juliette  
 Mateo, Velly — Tan, Velly  
 McKay, Benjamyn Edward — Szabo, Benjamyn Edward  
 McMillan, Drake Joseph — Melancon, Drake Joseph  
 McNeely, Lorna — Pilon, Lorna  
 McIntyre, Sara Jane — Beveridge, Sara Jane  
 McKay, Dylan Scott — Szabo, Dylan Scott  
 McLoughlin, Suzanne Edna Bernadette — McPhee, Suzanne Edna Bernadette  
 McMillan, Lila Estella — Honti, Lila Estella  
 Meagher-Ambrosino, Jane Anne — Ambrosino, Jane Anne Meagher  
 Meek, Bunny Barbara — Safari, Bunny Barbara  
 Michaud, Mary Adeline Margaret — Brethour, Mary Adeline Margaret  
 Milosevic, Mila — Pavicic, Mila  
 Mirkhai, Ban Akhiqar — Mirkhai, Samantha  
 Monette, Marilyn Elizabeth — Spere, Marilyn Elizabeth  
 Mooi, Helene Susan — Gaffney, Helene Susan  
 Nasser, Dalia Shoukry — Karam, Dalia Shoukry  
 Nero, Maria — Breuker, Maria  
 Neves, Paul Daniel — Altomari, Paul Daniel  
 Ng, Hoi Yee — Ng, Ivy Hoi Yee  
 Ninaber, Noanie Marie — Boundy, Noanie Marie  
 Oliveira, Maria Da Conceicao Da Luz — Carvalho, Maria Da Conceicao Da Luz  
 Ortiz, Denise Madeline — Krieger, Denise Madeline  
 Oviawe, Barbara Isabella — Emode, Barbara Isabella  
 Owens, Denise Joy — Ashworth, Denise Joy  
 Paluch, Agnieszka Jadwiga — Skolarczyk, Agnieszka Jadwiga  
 Panarella, Silvia Elizabeth — Emery, Silvia Elizabeth  
 Payne, Elyssa Alexandra — Nick, Elyssa Alexandra  
 Peatson, Joffrey Dale — Leigh, Joffrey Dale  
 Perrin, Thomas Michael III — Shellington, Thomas Michael  
 Persaud, Bissoondai — Persaud, Rita  
 Peru-Mohammed, Shaliza — Sarju, Shaliza  
 Peterbaugh, Mary-Beth Anne — Rix, Mary-Beth Anne  
 Peters, Pamela Yolande Raylene — Hunt, Pamela Yolande Raylene  
 Pham, Khanh Ngoc — Pham, Brian  
 Phankham, Amphone — Yau Tam Sang, Angela Amphone  
 Pickering, Marion Elizabeth — Davies, Marion Elizabeth  
 Piper, Ian Fraser John Ross — Ross, Ian Fraser John  
 Pitcher, Susan Evelyn — Arthurs, Susan Evelyn  
 Pols, Jennifer Win — Letterio, Jennifer Win  
 Polyschuk, Janice Murial — Hill, Janice Murial  
 Ponnampalam, Bavani — Thevaranjan, Bavani  
 Popowich, Brett Edward — Austin, Brett Edward  
 Price, Kimberly Anne — Moor, Kimberly Anne  
 Pukel, Yanina — Daniels, Yanina  
 Quiambao, Arlene Magalong — Zaldivar, Arlene Magalong  
 Ram, Parveen Erin Devi — Ram, Aneeta  
 Ramanand, Vindra — Dath, Vindra  
 Ramdial, Shelley Satyam — Deonarine, Shelley Satyam  
 Ramgobin, Savita — Gobind, Savita  
 Reppert, Alice Eleanor — Reppert, Alys Eleanor  
 Ricketts, Ingrid Marcia — Boden, Ingrid Marcia  
 Rogeswara Ganthan, Prashanth — Ganthan, Prashanth  
 Rogeswaraganthan, Durshan — Ganthan, Durshan  
 Rogeswaraganthan, Ratnasingham — Ganthan, Roges  
 Rogeswaraganthan, Shamini — Ganthan, Shamini  
 Ronald, Billi Eklesias Michel — Eklesiaste, Michel Billi  
 Roszak, Artur — Roszak, Arthur Mark  
 Rowsell, Lenora Nina — Davis, Lenora Nina  
 Royal, Monica Florence — Charlebois, Monica Florence  
 Ruszniak, Dariusz Ryszard — Wilson, Derek  
 Ruttan, Sharon Louise — Rutton-Terpstra, Sharon Louise  
 Sama, Kush — Handa, Kush  
 Schelhaas, Constantin Daniel — Schelhaas, Trevor Constantin Daniel  
 Scime, Laurie-Anne Michelle — Maitland, Laurie-Anne Michelle  
 Seetharam, Sandhya — Sumukadas, Sandhya  
 Selvanayagam, Sathyabama — Raj, Sathyabama  
 Shahid, Altaf — Hakim, Altaf  
 Shonek, Sofina Amy Louise — Mifflin, Sofina Amy-Louise  
 Silvano, Ferdinand Perez — Silvano, Trisha Ferdinand  
 Singh, Gurpreet Kaur — Lall, Gurpreet Kaur  
 Singh, Kiranpreet Kaur — Gill, Kiranpreet Kaur  
 Singh, Kulwinder Kaur — Dosanjh, Kulwinder Kaur  
 Singh, Manpreet — Lall, Manpreet Singh  
 Singh, Narinder Pal — Gill, Narinder Pal Singh  
 Singh, Rajinder — Lall, Rajinder Singh  
 Singh, Rajvir — Dosanjh, Rajvir Singh  
 Singh, Rashpal — Dosanjh, Rashpal Singh  
 Singh, Taranjit — Lall, Taranjit Singh  
 Smith, Sharon Patricia — Smith Seinen, Sharon Patricia  
 Sollitt, Mabel — Mohammed, Mabel  
 Spagovic, Catharine Gertrude — Van Helsdingen, Catharine Gertrude  
 Sriskandarajah, Velupillai — Skandarajah, Velupillai



Srivorravong, Lieang — Kwa, Neil  
 Swart, Marjorie Fern — Beattie, Marjorie Fern  
 Sweeney, Bernadette Teresa — Lane, Bernadette Teresa  
 Taylor, Bonnie Lee — Porter, Bonnie Lee  
 Telfer, Earlene Donna Marie — Telfer Malcolm, Earlene Donna Marie  
 Thomas, Kelly Louise — Crittenden, Kelly Louise  
 Thompson, Diane Michele — McPherson, Diane Michele  
 Thompson, Lisa Joanne — Whitlock, Lisa Joanne  
 Tocher, Valerie Lynn — Roam, Valerie Izabella  
 Tran, Giang Thuy Nguyen — Tran, Karyn Giang Thuy  
 Tran, Thuy Anhh — Lam, Jenny  
 Trujillo, Silvia — Trujillo, Jackie  
 Tucker, Sharon Linda — Rotman, Sharon Linda  
 Uncao, Lucia De Fatima Ferreira — Dipaola, Lucia De Fatima Ferreira  
 Van Sickle, Sandra Lynn — Hurlburt, Sandra Lynn  
 Viger, Myles Preston — Cooke, Myles  
 Villanueva, Josephine Aguilar — Lasquite, Josephine Aguilar  
 Ward-Zatorsky, Deborah Anne Patricia — Ward, Deborah Anne Patricia  
 Wendell, Margaret Mary — McKinley, Margaret Mary  
 Wielgosz, Jason Christopher — Walgos, Jason Christopher  
 Wilson, Susan Marie — Blackwell, Susan Marie Wilson  
 Wittwer, Nelia Da Conceicao — Ferreira Faustino Wittwer, Nelia Da Conceicao  
 Woo, Polly Suk Han — Woo-Wong, Polly Suk Han  
 Wowk, Danuta — Ruggero, Danuta  
 Yeh, Ying Mei — Yeh-Ha, Ying Mei  
 Yip, Yiu Tong Eaton — Yip, Terence Yiu Tong  
 Yip, Yuk Wing Winky — Yip, Eric Yuk Wing  
 Zaeem, Vali — Neckman, Val  
 Zhang, Han-Ping — Li, Edward

INDIRA SINGH,  
 Deputy Registrar General

(6117) 51

NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending November 14, 1997. The listing below shows the previous name followed by the new name.

AVIS EST DONNÉ PAR LES PRÉSENTES que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 14 novembre 1997. La liste ci-dessous indique les anciens noms suivis les nouveaux noms.

Abdel Shaheed, Rozett — Saad, Rozett Sabry  
 Abdulkhalik Husein, Shalaw — Dilan, Shalaw  
 Adjess, Oranit — George, Oranit  
 Agriesti, Sandra — Myers, Sandra  
 Akbari, Homayra — Ahmadi, Homayra  
 Alexander, Kristin Ann — Alexander Krauss, Kristin Ann  
 Allones, Gloria Alimjen — Svidrony, Gloria Alimjen  
 Allwood, Sherine Ketecha — Reid, Sherine Ketecha  
 Anderson, Jacqueline Cecilia — Anderson-Wilson, Jacqueline Cecilia  
 Annett, Michael George — Pare, Michael Melvin  
 Annett, Shawn Stewart — Pare, Shawn Stewart  
 Antony, Blaise Colin — Anthony, Blaise Colin  
 Antwi Boasiako, Victoria — Agyemang-Fredua, Victoria  
 Armani, Pietro — Armani, Pedram  
 Atef, Shayan — Farhad, Babak  
 Aziz, Celvia Emil — Saad, Celvia Emil  
 Aziz, David Emil — Saad, David Emil  
 Baabad, Ziad Abdella — Mohamed, Amin Abdo  
 Balaet, Anca-Mihaela — Avram, Anca-Mihaela  
 Bautista, Rellie Ron — Bautista Greco, Rellie Ron  
 Bawden, Elizabeth Pearl — Fodor, Elizabeth Pearl  
 Bernhardt, Erika Lynn — Bernhardt, Erika Viktoria  
 Bhatia, Femina — Merchant, Femina  
 Bhuchar, Jyoti Rani — Mehta, Jyoti Rani  
 Bilbija, Nada — Nordien, Nada  
 Bjelan, Brenda Lynn — Gaines, Brenda Lynn  
 Bjelan, Jason Simo — Gaines, Jason  
 Boehk, Melissa Elsa — Dugas, Melissa Elsa  
 Borne, Patricia Marie — Vidov, Patricia Marie  
 Boulbol, Souhare — Boulbol, Souhare Asma  
 Bryzik, Teresa Jadwiga — Tomaszewski, Teresa Jadwiga

Campbell, Agnes — Campbell Aidelman, Agnes  
 Canzanella, Rosanna Antonia — Barbieri, Rosanna Antonia  
 Cartier, Aaron Lewis Alexander — Smith, Aaron Lewis Alexander  
 Cartier, Aleisha Lana-Jean — Smith, Aleisha Lana-Jean  
 Cartier, Alexis Lacey-Lynn — Smith, Alexis Lacey-Lynn  
 Cassidy, Margaret Mary — Coates, Margaret Mary  
 Castro, Deixy Marisol — Nasrin Castro, Deixy Marisol  
 Chan, Sau Yee Irene — Chan-Habib, Sau Yee Irene  
 Chen, Yan Hong — Chen, Ivy Y. H.  
 Chipani, Elen Kidane — Haile, Elen Yonas  
 Choi, Catherine Wing-Yuen — Tse, Catherine Wing-Yuen  
 Chong, Diane Lun — Liu, Diane Lun  
 Chulu, Hoshiarie — Marimuthu, Hoshiarie  
 Chute, Kailani Adams — Adams-Chute, Kailani  
 Clements, Tracey Lynn — Clements Dymond, Tracey Lynn  
 Cooper, Ty Wood Hayes — Ryane, Jonn  
 Corcoran, Margaret Lorraine — Corcoran, Judy Margaret Lorraine  
 Da Silva, Mariana Augusta Cabral — Mazzei, Mariana Augusta Cabral  
 Densmore, Ronald Thomas — Magee, Ronald Thomas  
 Depledge, Deirdre Alison — Mahmoudi, Taney  
 Dewar, Mary Christine — Jolly, Mary Christine  
 Dhunoo, Shayma Renata — Mohan, Shayma Renata  
 Dhuraisaamy, Vanitha — Muthusamy, Vanitha  
 Drouin, Marie Therese Annique — Keating, Marie Therese Annique  
 Drozdowski, Brent Walter — Martin, Brent Walter  
 Edgar, Lisa Philina — Murray, Lisa Philina  
 Elexanian, Armen Sevan Sasha — Alexanian, Armen Sevan Sasha  
 Embree, Carter Anne — Danby, Carter Anne  
 Escallon-Miranda, Carolina Paola — Patryluk, Carolina Paola  
 Every, Andrew Frank Herlufsen — Herlufsen, Andrew Christian  
 Ferriman, Matthew David Conboy — Conboy, Matthew David  
 Fodor, Elizabeth Pearl — Bawden, Elizabeth Pearl  
 Freeman, Kara Lynn — Freeman-Bechard, Kara Lynn  
 Gallivan, Christine Paddy — Robertson, Christine Paddy  
 Gancevich, Cynthia — Gaetani, Cynthia  
 Georgevich, Trajce — Istocki, Trajce  
 Ginguila, Francisco Manuel — Ginguila, Jamaal Malik  
 Gjorgjevic, Nikolina — Istocki, Nikolina  
 Gjorgjevic, Pere — Istocki, Pere  
 Godin, Kayla Victorine — Paradis, Kayla Victorine  
 Golden, Tracy Ann — Rogers, Tracy Ann  
 Gradova, Galyna — Hradowy, Halyna  
 Gradovy, Iroslav — Hradowy, Yaroslav  
 Gradovy, Oleg — Hradowy, Oleh  
 Graham, Marnie Anna Louisa — Woodhouse, Marnie Anna Louisa  
 Grant, Joann — Dillabough, Joann  
 Grant, Robert Christopher — Sweeney, Robert Christopher  
 Gregoire, Lucette Caroline — Metivier, Lucette Caroline  
 Grupp, Melissa Bella — Lende, Melissa Bella  
 Hailegiorgis, Yewbdar — Hailegiorgis, Mehret  
 Halfyard, Robert Clarke — Brown, Robert  
 Handy, Kyle Jonathan — Verkuil, Kyle Jonathan  
 Haynes, Andrew David Hegarty — Hegarty, Dru David  
 Heeralal, Salima — Mohammed, Salima  
 Heron, James Carmen — Amato, James Carmine  
 Hindley, Reid Richard — Saxby, Reid Richard  
 Hoang, Thu Le — Wong, Lilliana Lai Lee  
 Ismael, Abdulkhalik Hussain — Dilan, Keiwan  
 Jackman, Terrence Arthur — Maselli-Jackman, Terrence Arthur  
 Jacobs, Tamara Lynne Tammi — Wakeley, Tamara Lynne Tammi  
 Jankovic, Angela — Dano, Angela  
 Jardine, Jacqueline Patricia — Frenzl, Jacqueline Patricia  
 Jevaguina, Anna — Jarvis, Anna  
 Jevaguina, Olga — Jarvis, Olga  
 Jevaguine, Alexandre — Jarvis, Alex  
 Jevaguine, Serguei — Jarvis, Serge  
 Joala, Hants-Aleksander — Joala, Hans Aleksander  
 Joaquim, Aida Maria — Ricci, Aida Joaquim  
 Jones, Jessica Mary — Cameron, Jessica Mary  
 Kaibara, Naomi — Portugaise, Naomi Kaibara  
 Kaulback, Deborah Elizabeth — Franzoi, Deborah Elizabeth  
 Kaur, Kuldeep — Dhillon, Kuldeep  
 Kohen, Norman — Schaffer, Norman  
 Laanemaa, Liivi — Maripuu-Laanemaa, Liivi  
 Lafleur, Romeal — Lafleur, Romuald



Lazarska, Katarzyna Jadwiga — Langley, Katarzyna Jadwiga  
 Leavens, Catherine Eileen — Smith, Catherine Eileen  
 Lee, Yeuk Yin — Ng, Yeuk Yin  
 Leonard, Tjin Kui — Leonard, Alice Chen-Kuei  
 Liscio, Anne Marie — Doyle, Anne Marie  
 Lock, Jennifer Lynn — Cordoni, Jennifer Lynn  
 MacKay, Ian George — Langdon, Ian George  
 Mangar, Hemraji — Bacchus, Hemraji  
 Martin, Tina Sharon — Miron, Tina Louise  
 Maselli, Linda Marie — Maselli-Jackman, Linda Marie  
 McCrossan, Kelli Anne — Baker, Kelli Anne  
 McKerral, Christopher-Paul Stanley — Rumley, Christopher-Paul Stanley  
 McCutcheon, Marie Noella Claudette — McCutcheon, Victoria Anne  
 McKenna, Alexandra Carmel — Kingston, Alexandra Niamh  
 Millar, Ruth Elizabeth — Borson, Ruth Elizabeth  
 Miller, Karen Phyllis Elaine — Henson, Karen Phyllis Elaine  
 Mladenovic, Vesna — Radivojevic, Vesna  
 Mohamed, Khadiga Mahagob Elbadawi — Nour, Khadija Elbadawi  
 Mohamed, Mahir Mustafa Nur — Nour, Maher Mustafa  
 Mohamed, Mohamed Maher Mustafa — Nour, Mohamed Maher Mustafa  
 Mohamed, Noha Maher Mustafa — Nour, Noha Maher Mustafa  
 Morglan, Roberta Lynn — Nykyforak, Roberta Lynn  
 Moro, Marzia — Moro Quintana, Marzia  
 Murphy, Lisa Diane — Bone, Lisa Diane  
 Murray-Stanley, Scott Elgin Graham — Stanley, Scott Elgin Graham Murray  
 Nalliah, Senthilkumar — Senthilkumar, Nalliah  
 Narrido, Elena Mocco — Titus, Elena Mocco  
 Nelson, Hollie Marie — Rodd, Hollie Marie  
 Ng, Lai Han — Ng-Pok, Anna Lai Han  
 Norlock, Colleen Anne — Watson, Colleen Anne  
 Paavola, Helen Angela — Frank, Helen Angela  
 Pardhan, Salima — Suleman, Salima  
 Parow, Audrey Diana Sigrid — Parow-Scott, Audrey Diana Sigrid  
 Pazdzior, Julia Katharine — Tuschak, Julia Katharine  
 Pereira, Natalia Da Silva — Pereira Anacleto, Natalia Da Silva  
 Pereira, Susan Patricia — Hazell, Susan Patricia  
 Piercey, Tanya Sara — Desjardins, Tanya Sara  
 Pisarek, Deborah Ann — Feldhamer, Deborah Ann  
 Polychuk, Sherrie Leigh Marie — Peat, Sherrie Leigh Marie  
 Portuguese, Justin Akira — Portuguese, Justin Akira Kaibara  
 Portuguese, Mika — Portuguese, Mika Kaibara  
 Poulin, Marie Sonya Louise — Harrison, Marie Sonya Louise  
 Primeau, Kelly Janet Marie — Dobbs, Kelly Janet Marie  
 Pronovost-Vivian, Christine Marie Carole — Worsley, Christine Marie Carole  
 Purdy, Benjamin James — Warr, Benjamin James  
 Qadir, Ronak Maroof — Dilan, Ronak  
 Rajathurai, Suganthini — Ravichandran, Suganthini  
 Roden, Winifred Elizabeth Ann — Roden, Joanna Lynn  
 Rodriguez, Alicia Johana — Selvarajan, Licia Johana  
 Rogic, Sylvana Marija — Carbonelli, Sylvana Marija  
 Roth, Linda Leah Zieroth — Smith, Linda Leah Zieroth  
 Roussel, Barbara — Hardy, Barbara  
 Safaei, Mohammad — Safaei, Armin  
 Saunders, Howard Hugh — Olembe, Shamiah  
 Schalkx, Grace Anne — Bruley, Grace Anne  
 Shang, Meng — Barnett, Jilian Mei Claire  
 Shao, Du — Watson, Hannah-Li Patricia Margaret  
 Siddiqui, Rabiea Gul — Haider, Rabiea Gul  
 Singh, Jaswant — Munday, Jaswant Singh  
 Singh, Omatie — Maharaj, Omatie  
 Slusarczyk, Helena — Gwozdowski, Helena  
 Smith, Susanne Elizabeth — Smith McCarthy, Susanne Elizabeth  
 Sobotka, Jennifer Anne — Friesen, Jennifer Anne  
 Somogyi, Susan Kate — Smith, Susan Kate  
 Son, Jimi — Lee, Chiemi  
 Stamogiannos, Kontilia — Rubino, Kontilia  
 Struhar, Kelly Elizabeth — Cookson, Kelly Elizabeth  
 Sudol, Bozena — Sztuka, Bozena  
 Swan, Roger William — Swan, Cassandra Lea  
 Szebeledy, Magdolna — Sebok, Maggie  
 Takuska, Maria — Lewinski, Maria  
 Tanner, Joan Susan — James, Joan Susan

Thomas, Jill Leanne — McDonald, Jill Leanne  
 Tran, Kwai Lan — Brudnicki, Selina Kwai Lan  
 Tulsie, Parbattie — Tulsie Soman, Parbattie  
 Uribe, Diana Alexandra — Galdames, Diana Alexandra  
 Uribe, Natalia Andrea — Galdames, Natalia Andrea  
 Vandenberg, Carol Ann Rose — Miller, Carol Ann Rose  
 Varatharajan, Vijitha — Kirupaharan, Vijitha  
 Vella, Maria Olenka — Zagazeta Garcia, Maria Olenka  
 Vivian, Janine Simone — Roy, Janine Simone  
 Vivian, Samuel Andrew Dakota — Roy, Samuel Andrew Dakota  
 Walker, Adele Liane — Brown, Adele Liane  
 Walker, Neil Roger — Lund-Walker, Neil Roger  
 Walker, Susanne — Chenoweth, Susanne  
 Wessman, Ronald William Reid — Wessman, Reid William  
 Wicke, Margot Jacqueline Adelina — Lutz, Margot Jacqueline Adelina  
 Wilkinson, Janet Rose — McAndrew, Janet Rose  
 Wilson-Nantais, Ashley Lynn — Tessier, Ashley Lynn  
 Wimalaratnam, Anushiya — Wigneswaran, Anushiya  
 Wojda, Barbara Mary Elizabeth — Greene, Barbara Mary Elizabeth  
 Woods, Jill Marie — Buckland, Jill Marie  
 Yazdaniha-Najafabadi, Navid — Ramsay, Nathan  
 Yiu, Ching Yin — Yiu, Jennifer Ching Yin  
 Yiu, Chung Tak — Yiu, Peter Chung Tak  
 Yu Rottenberg, Mingxue — Rottenberg, Shelley Mingxue

(6118) 51  
 INDIRA SINGH,  
 Deputy Registrar General

NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending November 21, 1997. The listing below shows the previous name followed by the new name.

AVIS EST DONNÉ PAR LES PRÉSENTES que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 21 novembre 1997. La liste ci-dessous indique les anciens noms suivis les nouveaux noms.

Al-Najjar, Monira Mohamed Adel — Ramsey, Moni A.  
 Alabone, Elizabeth — Carman, Elizabeth  
 Alexandrov, Nikolay Manolov — Aksoy, Nurol  
 Alexandrov, Rueshen — Aksoy, Rueshen  
 Alexandrova, Leman Youmer — Aksoy, Leman  
 Alexson, Mari Joanne — Sterling, Mari Joanne  
 Alisappi, Bernice Clara Bertha — Quachegan, Bernice Clara Bertha  
 Allsop, Karen Michele Kelly — Sorichetti-Hall, Karen Michele Kelly  
 Anderson, Laurie St Clair — Bridgman, Laurie St Clair  
 Arshi, Parminder — Khaira, Parminder Ruby  
 Arshi, Swinder Kaur — Khaira, Ravinder Kaur  
 Asselstine, Jessica Elizabeth Sue-Ellen — Stea, Jessica Elizabeth Sue-Ellen Asselstine  
 Athimoolam, Ganapathy Chandrasekaran — Athimoolam, Sekar Aube, Christine Helene Marie — Brousseau, Christine Helene Marie  
 Baldino, Julia — Thickett, Julia Ashley  
 Barrett, Cornelia — Barrett, Cornelia Sydnay  
 Bayda, Lincoln John — Collins, James  
 Bedard, Marie Denise Chantal — Bedard-Paquette, Marie Denise Chantal  
 Belanger, Ian John — Dymont, Ian John  
 Belcher, Mallory Shannon — Wilson-Belcher, Mallory Shannon  
 Bergsma, Angela Gay — Dubois, Angela Gay  
 Bigney, Colleen Agnes — Deblois, Colleen Agnes  
 Binning, Vanessa Natasha — Binning-Jones, Vanessa Natasha  
 Bisson, Amanda Lee — Schison, Amanda Lee  
 Blair, Marverny Merginta — Meredith, Marverny Merginta  
 Bobyk, Ludwina — Bobyk, Lee  
 Boislard, Linda Lorine — Stansbury, Linda Lorine  
 Boranprasis, Marini — Madison, Marini  
 Bozz, Kelli Barbara Lina — Bozz, Kellie Lina  
 Brenner, Joanna Hope — Moshkovits, Joanna Hope  
 Brien, Bernadette Loretto — Quinn, Bernadette Loretto  
 Brosowski, Dawn Michelle — Burns, Dawn Michelle  
 Burke, Joseph Aloysius — Burke, Kevan Aloysius  
 Burns, Sarah Lorraine — Johnson, Sarah Lorraine  
 Byrne, Katie — Byrne Hughes, Katie  
 Calle, Maria Augusta — Ponce, Maria Augusta

- Campisi, Angela — D'Amico, Angela  
 Campsall, Sharlene Anne — Holmberg, Sharlene Anne  
 Chambers, Christina Marie — Ramsey, Christina Marie  
 Chan, Kwan Ho — Chan, Kenny Kwan-Ho  
 Chan, Kwok Leung — Chan, Rex Kwok-Leung  
 Chan, Wing Man — Chan, Fiona Wing-Man  
 Cheng, Wen Lin — Hsu, Wen Lin  
 Chichmanova, Patrizia — Alexieva, Patrizia  
 Choi, Yeong-Chi — Choi, Ellie Yeong-Chi  
 Chong, Ming Dong — Galloway, Emma Chong Ming Dong  
 Chung, Mien Van — Chung, Samantha Van  
 Clarke, Kelly Ann — Black, Kelly Ann  
 Coady, Christine Ann Cecile — Paquette, Christine Ann Cecile  
 Coleman, Linda Anne — Campbell, Noni Linda Anne  
 Connell, Tamar Louise — Connell, Tamar Louise Elizabeth Magson  
 Cosentino, Alida Maria — Rosati, Alida Maria  
 Cox, Catherine Hope — Kusiewicz, Catherine Hope  
 Cruz Vasquez, Alba Rosa — Munoz, Alba Rosa  
 Cucca, Serafina Maria Pina — Sicard, Serafina Maria Pina  
 Cwik, Iwona — Adamiak, Iwona  
 Dawe, Jillian Winnifred Dawn — Dixon, Jillian Winnifred Dawn  
 Daykin, Katherine Jane — Shyiak, Brock Blake  
 Decarli, Oriana Claudia — Lipke, Oriana Claudia  
 Diehl, Valerie Gaye — Leader, Valerie Gaye  
 Dmitriev, Elena — Wolf, Elain  
 Dooley, Peter Joseph — Love, Peter Brandon  
 Draskovic, Jelica Ellen — Draskovic, Helen Jelica  
 Droege, Kirsten Katharina — Sardelis, Kirsten Katharina  
 El-Nabulsi, Ahmad Akram Mohamed Ramzi — Ramsey, Jim A.  
 El-Nabulsi, Akram Mohamed Ramzi — Ramsey, Ak  
 El-Nabulsi, Ramzi Akram Mohamed Ramzi — Ramsey, Ramsey A.  
 Eliabachus, Volta Sharon — Eliabachus-Omorou, Volta Sharon  
 Elliot, Julie Lynn — Porter, Julie Lynn  
 Fafara, Iwona — Piotrowski, Iwona  
 Fannon, Daniel William — McGillivray, Daniel William  
 Farhadi Yusefabad, Saeed — Far, Kevin  
 Fidler, Jenessa Catharine Marie — Rovers, Jenessa Catharine Marie  
 Fontaine-Prendergast, Rhonda Elizabeth Evelyn — Jowett, Rhonda Elizabeth Evelyn  
 Fortura, Laura — Schembri, Laura  
 Gent, Martyn Robert — Iannece, Martyn Robert  
 Gibellini, Anna — Recine, Anna  
 Gies, Darrell Orval — McRoberts, James Darrell  
 Gik, Alon — Gray, Alon  
 Gik, David — Gray, David  
 Gik, Raisa Raya — Gray, Raya  
 Gillespie, Jamie Angela — De Leo, Jamie Angela  
 Gillson, Paul Owen — Contraz, Angie Louise  
 Giorgi, Laura — Adams, Laura  
 Girouard, Joseph Ronald Claude — Girouard, Ronald Alphonse Joseph  
 Gosein, Maurisha Maurinda — Dolson, Maurisha Maurinda  
 Grant-Fulcher, Olive Jackleen — Grant-Fulcher, Tracy Jackleen  
 Gribble, William Kenneth — Parker, William Kenneth  
 Gritskiv, Bogdan — Hritziv, Bohdan  
 Gritskiv, Daniel Michael — Hritziv, Daniel Michael  
 Gunraj, Ruby — Gunraj, Ruby Sahai  
 Gutierrez, Mary Ann Pengso — Engalla, Mary Ann Pengso  
 Hamre, Elizabeth Elaine — Doyle, Elizabeth Elaine  
 Haniff, Bibi Rafia Ainatul Nesha — Haniff-Cleofas, Bibi Rafia Ainatul Nesha  
 Hantjis, Alexandra Helena — Hantjis Santamaria, Alexandra Helena  
 Hedjes, Alma Victoria — Pierce, Alma Victoria  
 Hemlow, George Melvin — Hemlow, Robert Miles  
 Henderson, Heather Anne — Jones, Heather Anne  
 Hernandez, Leonel Mauricio — Escobar, Leonel Mauricio  
 Hill, Candace Bernice — Cockcroft, Candace  
 Hill, Jean Ethel — Priddle, Jean Ethel  
 Hill, Nicole Louise — Cockcroft, Nicole Louise  
 Hong, Ka Shing — Kang, Jiasheng  
 Horne-Bryan, Judy Lynn — Horne, Judy Lynn  
 Howling, Karen Irene — Scott, Karen Irene  
 Husain, Shno Abdulkhalq — Dilan, Shno  
 Hyman Cohen, Wendy Ellen — Cohen, Wendy Ellen  
 Inwood, Marguerette Georgina — Inwood, Marguerite Georgina  
 Isaac, Amanda Rose — Tolles, Amanda Rose  
 James, Andrew Kumar — James, Andrew Praveen  
 James, Manju Velayuthampillai — James, Manju  
 Jaramillo, Rosalba — Braden, Rosalba  
 Jebakumar, Kevin — Sithersingh, Kevin Joseph  
 Jesso, Amanda Lee — Gauthier, Amanda Marie  
 Jiang, Yan — Gow, Tracy Jiang  
 Jibril, Fadumo Ibrahim — Abdi, Asha Ahmed  
 Jivraj, Farah — Jivraj Khamis, Farah  
 John, Mary Elizabeth — Asirvatham, Mary Elizabeth  
 Johnson, Marjorie May — Warkentin, Marjorie May  
 Jones, Esther Elizabeth — Gauthier, Esther Elizabeth  
 Jones, Sylvester Athelston — Gauthier, Sylvester Athelston  
 Joseph, Edee Dannette — McCauley, Ellise Danielle  
 Joseph, Moira — Rose, Moira  
 Jubas, Amy Ziva — Jubas-Bernstein, Amy Ziva  
 Jungen, Susi — Gantenbein, Susi  
 Kaczmarek, Anna — Szczurowski-Kaczmarek, Anna  
 Kahane, Carrie Sue — Macy, Carrie Sue  
 Kampman, Sandra Rae — Caiella, Sandra Rae  
 Kandiah, Thayalini — Mohanathas, Thayalini  
 Kaushansky, Irena — Kaushansky-Thomas, Irena  
 Keewaykapow, Valerie Gay — Wesley, Valerie Gay  
 Khael, Rafid — Mikhael, Joseph  
 Khan, Abraham Ahmad — Muslim, Ibraheem  
 Khan, Mohammad — Muslim, Mohammed  
 Khan, Sher Ahmad — Muslim, Osama  
 Klassen, Mercedes Dawn — Richard, Mercedes Dawn  
 Knott, Gabriella Angelica — MacDonald, Gabriella Angelica  
 Kolovadis, Angela — Anastasopoulos, Angela  
 Kostin, Cynthia Marrie — Bonar, Cynthia Marrie  
 Kouzmitchev, Andrei — Mitchell, Andrew  
 Kouzmitchev, Maxim — Mitchell, Maxim  
 Kouzmitcheva, Tamila — Mitchell, Tamila  
 Kozlowski Manupelli, Linda Jean — Kozlowski, Linda Jean  
 Kricfalusi, Kyle Charles — Burgoyne, Kyle Charles  
 Kuervers, Philip Martin — Kuervers, Martin Herman  
 Kulaszka, Lucille Anne — Coyne, Lucille Anne  
 Kupryushina, Margarita — Sardak, Margarita  
 Larose-Hickman, Mary Gilberta — Nickel, Mary Gilberta  
 Law, Long Yin — Law, Stella Long-Yin  
 Law, Ming Yin — Law, Sean Ming-Yin  
 Lee, Catherine Heather — Lee-Montgomery, Catherine Heather  
 Lee, Mei-Lan — Lee, Daisy Mei-Lan  
 Lemay, Marie Lea Line — Alary, Lynn Lea  
 Lessard, Michelle Lynn — Lessard-Hillier, Michelle Lynn  
 Li Lung Hok, Li Nah Leen — Gonclaves, Nella  
 Ling, Doreen McVittie — Ling-Stewart, Doreen McVittie  
 Litchfield, Laura Jane — Draper, Laura Jane  
 Loi, John Cheuk Lun — Loi, Alan John Cheuk Lun  
 Lontoc, Lorna — Ramos, Lorna  
 Lowden, Scott Christopher — Santia, Scott Christopher Lowden  
 Lucyk, Lisa Janet — Nixon, Lisa Janet  
 Lui, Wei Ming — Lu, Peter Wei Ming  
 Lypps, Sandra Lynn — Lypps-Stobbs, Sandra Lynn  
 MacLeod, Brenda Lorraine — Thomas, Brenda Lorraine  
 Mahy, Terria Lee — Woodhouse, Terria Lee  
 Makari, Venece Emanuel — Kades, Venece Emanuel  
 Manmeet, Nijjar — Nijjar, Manmeet  
 Martin, Marion Myrtle — Brooks, Marion Myrtle  
 Matson, Jennifer Jean — Scott, Jennifer Jean  
 Matte, Tina — Matte, Tina Christine  
 McCabe, Adam Jeffery — Narducci, Adam Jeffery  
 McCabe, Samantha Anne — Narducci, Samantha Anne  
 McCann, Alistair Robin — McCann, Robert Alistair  
 McGovern, Patricia Marion — Glassford, Patricia Marion  
 McGraw, Sherwood John — McGraw, Jonathon Nicholas  
 McGregor, Janet Dawn — Taylor, Janet Dawn  
 McLaren, Krista Louise — Edgell, Krista Louise  
 McQuade, Adam Micheal — Jones, Adam Micheal  
 Mehdiadah, Fawzia — Firozi, Mehdiadah  
 Mendez, Julieta Tatiana — Pregent, Tatiana Julieta  
 Mesman, Jason Alfred Joseph — Fawcett, Jason Joseph  
 Miller, Gordon Freeman — Frost, Gordon Freeman  
 Miner, Nancy Lois — Griffin, Nancy Lois  
 Minott, Michelle Peta-Gay — Nasraoui, Michelle Peta-Gay  
 Mirchandani, Dimple — Mukherjee, Dimple



- Moncrieff, Gail Laurie — Jermyn, Gail Laurie  
 Moore, Mandy Delrose — Webb, Mandy Delrose  
 Moring, Patricia Ann — Palmateer, Patricia Ann  
 Morley, Melody Winnifred — Scarr, Melody Winnifred  
 Morrow, Jodi — Boleychuk, Jodi  
 Mueller, Shawn Ian David — Lee, Shawn Ian David  
 Mueller, Troy Douglas — Lee, Troy Douglas  
 Mukhtar, Nasim Akhtar — Rana, Naseem Akhtar  
 Myra, Joseph Anthony — Kicks, Joseph Anthony  
 Nasayao, Nerissa — Bernas, Nerissa  
 Nasser, Nadia Jennifer — McIlveen, Nadia Jennifer  
 Nickason, Kelly Jean — Seal, Kelly Jean  
 Nicolosi-Wilson, Trevor Julian — Nicolosi-Douma, Trevor Julian  
 Ong, Ping-Wah — Ong, Michael  
 Oskroba, Renata Elzbieta — Kozak, Renata Elzbieta  
 Ostrowska, Katarzyna Anna — Bugajska, Katarzyna Anna  
 Page, Katherine Louise — Page, Katherine Elizabeth Louise  
 Pantojan, Pamela — Suficiencia, Pamela  
 Panzo, Diamila Nair — Panzo, Diamila N'zinga  
 Panzo, Domingos Pedro — Panzo, Wene Ginguila  
 Papa, Cynthia Palma — Wiechmann, Cynthia Palma  
 Patel, Saroj Natvarlal — Patel, Saroj Paresch  
 Patel, Zaveed — Patel, Javeed  
 Pelikan, Philippe Maxime — Pelikan, Philip  
 Pelletier, Candi-Lynne — Otten, Candi-Lynne  
 Peterson, Leona Phyllis — King, Leona Phyllis  
 Phillips, Rebecca Margeurite — Lloyd, Rebecca Margeurite  
 Pinto, Andrealata Edith — Pinto-Rego, Andrealata Edith  
 Pollard, Patricia Jayne — Sparling, Patricia Jayne  
 Poopalasingam, Kalagini — Tharmalingam, Kalagini  
 Proulx, Marie Paulette — Proulx-Clinton, Marie Paulette  
 Quintal, Rose Jocelyne Claire Marie-Christine — Quintal, Christine Linda  
 Radcliffe, Alison Joy — Radcliffe-Brydun, Alison Joy  
 Radojicic, Milena — Radojicic Jungbult, Milena  
 Rahman, Irene Costales — Costales, Irene  
 Ramdath, Nyla — Ramdath, Victoria Nyla  
 Redekop, Loredana — Redekop, Alissa Loredana  
 Redekop, Petronela — Redekop, Ashley Petronela  
 Richard, Joanne Sally — Anderson, Joanne Sally  
 Ridout, Jaime Lynn — Quenneville, Jaime Lynn  
 Riley, Cynthia Louise — Riley, Cyn  
 Riviere, Lydia Annmarie — Humber, Lydia Annmarie  
 Robbins, Leslie Ann — Forward, Leslie Ann  
 Robertson, Carole Ann — Robertson, Caroline Lee  
 Rogers, Lisa — Brooks, Lisa Taylor  
 Romanenko, Tatiana — Stolarsky, Tatiana  
 Rosati, Laura — Reggimenti, Laura  
 Roza, John Furtado — Rosa, John Furtado  
 Russell, Barbara Lynn — Russell Flaherty, Barbara Lynn  
 Russell, Khadyah Elizabeth Marcella — Courmeyea, Khadijah Elizabeth Marcella Jo-Anne  
 Sabaratnam, Nakulendra — Uthayagumaran, Nakulendra  
 Saleh, Mohammed Yousef — Barakat, Mohammed Yousef  
 Salmon, Caroline Irene — Hartman, Caroline Irene  
 Samuels, Ruth Leona — Samuels-Bernard, Ruth Leona  
 Sandhu, Parveen Kaur — Dhand, Parveen Kaur  
 Saye, Wendy Susan — Scott, Wendy Susan Meaghan  
 Seepersad, Sheri-Ann Nicole — Mohammed, Sheri-Ann Nicole  
 Shao, Lai Fu — Kirton, Kimberly Rebecca Anne  
 Shepperd, Michael Stanley — Bobiash, Michael Stanley  
 Sheridan, Ivana — Herzfeld, Ivana  
 Siemens, Nancy Ann — Mosey, Nancy Ann  
 Silke, Herb Charles — Zielkie, Herb Charles  
 Simpson, Clayton Floyd — Ellis, Clayton Floyd  
 Singh, Avtar — Nijjar, Avtar  
 Skalba, Amanda Monique — Misener, Amanda Christine  
 Smythe, Stephanie Grace — McGachy, Stephanie Grace  
 So, Cecilia Lai Yee — So-Cheng, Cecilia Lai Yee  
 Souliere, Michelle Renee — Hoggart, Dan George  
 Spratt, Gail Gemmell — Kelly, Gail Gemmell  
 Squires, Karen Wendy Lynn — Marshall, Karen Wendy Lynn  
 Srivasta, Luiza — Wolf, Luiza  
 Srivastva, Viru — Wolf, Veronica  
 St Louis, Troy Mathiew — Barbeau, Troy Michael  
 St Pierre, Suzanne — St Pierre-Miczki, Suzanne  
 Steckly, Tammy Lee — Jarvis, Tammy Lee  
 Steffler, Madeleine Marie — Jacobs, Madeleine Marie  
 Stolarova, Marianna — Brook, Marianna  
 Streefkerk, Maria Cornelia — Dejong, Maria Cornelia  
 Su, Ying — Didier, Aimee Bernadette  
 Suarez, Gladys Arlene — Attard, Gladys Arlene  
 Sukar, Tania — Abdulwahid, Tania  
 Surprenant, Marie Lorrenne Danielle — Libersan, Marie Lorrenne Danielle  
 Tapasi, Sukhpreet Singh — Nijjar, Sukhpreet  
 Tattersall, Melissa Ann — Lashmar, Melissa Ann  
 Taylor, Susanne Ruth — Whealon, Susanne Ruth  
 Tchougai, Galina — Hritzkiv, Halyna  
 Tchougai, Yaryne — Hritzkiv, Yaryna  
 Teichberg, Michelle Shayne — Matin, Michelle-Shayne  
 Thomas, Zita Marlene — Ransome, Zita Marlene  
 Thompson, Georgina Jane — Redsky, Georgina Jane  
 Tsangarakis, Yolanda — Fenton, Yolanda  
 Tuck, Rebecca Alison — Esseltine, Rebecca Alison  
 Uy, Ethel Shari — Shaak, Shazea Sharifa  
 Vainshtein, Evgenia — Weinstein, Eugenia  
 Van, Tuyet Bach — Van, Molly T.  
 Van Den Biggelaar, Diane Lisa — Mes, Diane Lisa  
 Van Erdelen, Valerie Jean — Van Erdelen-Bishop, Valerie Jean  
 Vavere, Christina Maria — Settembrini, Christina Maria  
 Veilleux, Marie Lisa — Schwartz, Marie Lisa  
 Vinkle, Marsha Lynn — Vincent, Marsha Lynn  
 Wade, Arlene Mary — Welzel, Arlene Mary  
 Wakegijig, Genevieve Martina — Trudeau, Genevieve Martina  
 Wark, Lynne Elizabeth — Wark, Samara  
 Watson, Isoke Aisha Tafari — Richards, Isoke Aisha  
 Wierzbicka, Elzbieta — Jasinski, Elzbieta  
 Wilgosh, Julie Anne — Barlow, Julia Anne  
 Wiseman-Jones, Jacklyn Sharon — Gauthier, Jacklyn Sharon  
 Woodruff, Jeanette Aylene — Dillon, Jeanette Aylene  
 Woroschuk, Teddy Robert — Ingraham, Robert Teddy  
 Wrightman, Lynn Ann — Fisher, Lynn Ann  
 Yan, Man Chu Windy — Yan, Yau Yau Windy  
 Yu, Manhong — Schade, Jacqueline Alexandra Man Hong  
 Zhang, Fangyuan — Zhang, Fangyuan Fred  
 Zhou, Yi — Zhou, Simon  
 Zovko, Spomenka — Boras, Spomenka

INDIRA SINGH,  
Deputy Registrar General

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NOTICE IS HEREBY GIVEN that the following changes of name were granted during the week ending November 28, 1997. The listing below shows the previous name followed by the new name.

AVIS EST DONNÉ PAR LES PRÉSENTES que les changements de noms suivants ont été accordés au cours de la semaine se terminant le 28 novembre 1997. La liste ci-dessous indique les anciens noms suivis les nouveaux noms.

- Ali, Sean Hassan — Kreutzberg, Sean Hassan  
 Alisappi, Samatha Margaret Liola — Hardisty, Samatha Margaret Liola  
 Anderson, Melanie Lynn — Dixon, Melanie Lynn  
 Angelski, Kimberly Ann — Chalcraft, Kimberly Ann  
 Antonacci, Jane Marjorie — Frizzell, Jane Marjorie  
 Apostolopoulos, Vassilios — Apostolopoulos Apostol, Vassili  
 Arumugam, Sothinathan — Sothinathan, Arumugam  
 Athwal, Satwinder Kaur — Dhillon, Satwinder Kaur  
 Babushkin, Klaudia — Babushkin-Burshtein, Klaudia  
 Baer, Janice Catherine — Thoms, Janice Catherine  
 Barton, Heather Christine — Widdington, Heather Christine  
 Basha, Hassan — Albasha, Hassan  
 Basilio, Patricia Carmela — De Guzman, Patricia Carmela  
 Batish, Hemanshu — Khanna, Hemanshu  
 Behringer-Smith, Heidi Smith — Behringer, Heidi Susan  
 Bell, Cody Anthony Royce — Sergi, Cody Anthony  
 Birenbaum, Sandra — Bain, Sandra  
 Boctor, Davaid — Boctor, David  
 Boctor, Golly — Boctor, Julie  
 Boctor, Ieva — Boctor, Eva



- Boctor, Thorya — Boctor, Suraia  
 Bou Ghannam, Danielle — Helou, Danielle  
 Brewer, Catherine Anne — Auld, Catherine Anne  
 Brown, Edward John — Fitzgerald, Edward John  
 Brown, Justin Sinclair — Edwards, Justin Sinclair  
 Bull, Marilyn Ann — Miller, Marilyn Ann  
 Campbell, Charlotte Marilyn — Burns, Charlotte Marilyn  
 Campbell, Jayna Elizabeth — Burns, Jayna Elizabeth  
 Campbell, Rebecca Elizabeth — Burns, Rebecca Elizabeth  
 Card, Lance Matthew — Reid, Lance Matthew  
 Castro, Doris Esperanza — Castro Hernandez, Doris Esperanza  
 Castro, Glen — Hernandez Castro, Mario Glen  
 Chan, Nicholas — Stacey, Nicholas  
 Chartrand, Susans — Chartrand Cyr, Susans  
 Chatter, Roxana Graciela — Selamyan, Roxana Graciela  
 Chen, Yuanxia — Giroux, Sophie Yuanxia  
 Cheung, Pik Ki Peggy — Cheng, Pik Ki Peggy  
 Cheung, Rowena Ka-Po — Cheung-Wong, Rowena Ka-Po  
 Cheung, Wai Hing — Chan, Yuk Yen  
 Chu, Shuk-Fan — Harrington, Shuk-Fan  
 Chung, Mei Yen — Woo, Mei Yen  
 Clement, Darrell Randy — Peacock, Darrell Randy  
 Cote, Juanita Andrea — Gobeil, Juanita Andrea  
 Cumming, Krista Loreen — Fritz, Krista Loreen  
 Cybula, Leokadia — Jakuc, Leokadia  
 Daechsel, Karen Cassie Louise — Held, Karen Cassie Louise  
 Damani, Bhairavi — Patel, Bhairavi  
 Davies, Brent Richard — Graham, Brent Richard  
 Davies, Keri Kathleen — Graham, Keri Kathleen  
 Dawod, David — Odesho, David  
 Dawod, Nawal — Odesho, Nawal  
 Dawod, Nisiwn — Odesho, Nisiwn  
 De Boer, Deanna Maureen — Arkell, Deanna Maureen  
 Dean, Glena Ann — Salisbury, Glena Ann  
 Diu, Vay Dan — Dan, Hoang Van  
 Dosanjh, Manjit Kaur — Sandhu, Manjit Kaur  
 Du, T. Hieu — Mac, Tony T. H.  
 Dupuis, Joseph Patrick Ray Allen — Guay, Joseph Ray-Allen  
 Eggengoor, Brenda — Tofts, Brenda  
 El-Hajj Ibrahim, Adib — Ibrahim, Adib  
 El-Hajj Ibrahim, Dina — Ibrahim, Dina  
 El-Hajj Ibrahim, Khaled — Ibrahim, Khaled  
 El-Hajj Ibrahim, Mohamad — Ibrahim, Michael  
 Emery, Meghan Jo Anne — Reid, Meghan Jo Anne  
 Estacio, Jemima Gabriel — Tan, Jemima Gabriel  
 Farajollahnia, Habib — Fara, Navid  
 Fernando Perera, Roshani — De Zoysa, Rohini Anastacia  
 Fisher, Jennifer Lynn — Galpin, Jennifer Lynn  
 Fisher, Tammie May — Neilson, Tammie May  
 Forde, Mary Josephine — Morrison, Mary Josephine  
 Foster, Marsha Elaine — Drew, Marsha Elaine  
 Foster, Melissa Suzanne — Spicer, Melissa Suzanne  
 Fritz, Winston Romaine — Bridgman, Winston Romaine Fritz  
 Fritz-Anderson, Ezra David — Bridgman, Ezra David  
 Fritzanderson, Aengus Binyamin — Bridgman, Aengus Binyamin  
 Fritzanderson, Amos Baven — Bridgman, Amos Baven  
 Fritzanderson, Hanah Nyree Helen — Bridgman, Hanah Nyree Helen  
 Fritzanderson, Isak Bridgman Brash — Bridgman, Izak Brash  
 Fritzanderson, Jennie Kroa Bamdas — Bridgman, Jennie Kroa Bamdas  
 Froehlich, Stephanie — Rutledge, Stephanie  
 Gadoury, Danielle — Tripodi, Danielle  
 Ghomi, Mehran — Frohar, Mehran  
 Gilbert, Stephanie Lee — Pemberton, Stephanie Lee  
 Girimonte, Jennifer Lee — Campbell, Jennifer Leigh  
 Glassford, John Richard — Morris, John Richard  
 Goodward, Jessica Jean — Serre, Jessica Jean  
 Graham, Diane Lesley — Stimpfig, Diane Lesley  
 Gregorio, Cidalia Maria Clemente Esteves — Esteves, Cidalia Clemente  
 Hack, Michelle Jennifer — Gottwald, Michelle Jennifer  
 Hare, Dustie Joelle — Bennett, Dustie Joelle  
 Hare, Michael — Bennett, Michael Charles  
 Harrington, Melissa Ann Elizabeth — Peddie, Melissa Anne Elizabeth  
 Harris, Julianne Lara — Harris-Rensink, Julianne Lara  
 Hartsgrrove, Margaret Elizabeth — Snively, Margaret Elizabeth  
 Hashim, Baraat — Kodar, Lisa  
 Hattar, Nancy Veronica — Barnes, Nancy Veronica  
 Honaizer, Beau Glenn — Botting, Beau Glenn  
 Hondamuni Perera, Upesh — De Zoysa, Upali  
 Hopkins, Brent Matthew William — Hopkins, Brent Matthew  
 Hristova, Hristina — Kristova, Kristina  
 Hurst, Sarah Elizabeth — Stokes, Sarah Elizabeth  
 Hutchcroft, David Elvis — Kenehan, David Elvis  
 Ibanez, John Joseph — Hanan, John Joseph  
 Ignakiewicz, Malgorzata Maria — Deangelis, Malgorzata Maria Ignakiewicz  
 Ivaniouk, Anna — Miller, Anna  
 Jaipaul, Geeta Devi — Jaipaul-Rodriguez Camacho, Geeta Devi  
 Jones, Deborah Veronica — Jones Downie, Deborah Veronica  
 Jones, Mary Carolyn — Maroney, Mary Carolyn  
 Joshi, Shitalben Sagar — Joshi, Sheetal Sagar  
 Kandasamy, Raveendran — Raveendran, Kandasamy  
 Kayaian, Mariam — Safari, Mariam  
 Kerr, Beverly June — Smith, Beverly June  
 Khan, Bibi — Umar, Naseema  
 Khan, Mohammed Nabinasim — Umar, Mohammed Nabeth  
 Khan, Mohammed Rabbee — Umar, Mohammed Aleef  
 Killingbeck, John Garfield — Sleeman, John Garfield  
 Kirkpatrick, Andrew Scott — Williams, Andrew Scott  
 Koren, Irena Danuta — Rewak, Irena Danuta  
 Kosnaskie, Gloria Ann — Ziebarth, Gloria Ann  
 Koster, Darlene Patricia — Robinson, Darlene Patricia  
 Kostova, Elitza Atanasova — Iordanov, Elitza Atanasova  
 Krishan, Neelam — Kumar, Krishan  
 Kumar, Vinodh — Kumar, Vincent Alexander  
 Lacharity, Cheryl Lynn — Miller, Cheryl Lynn  
 Laffoon, James Dakota — Gilchrist, James Dakota  
 Lalu, Angela Savitri — Maniram, Angela Savitri  
 Lam, Lan Fong — Lam Yeung, Lan Fong  
 Laundry, Michelle Marie — Ernst, Michelle Marie  
 Lee, Young Sook — Yim, Young Sook  
 Lehman, Christine Margaret — Allison, Christine Margaret  
 Lessina, Elena — Cameron, Elena  
 Lieu, Phuong Yeu — Wong, Phuong Yeu  
 Lockwood, Travis Kyle Barry — Plant, Travis Kyle Barry  
 Louie, Ching Yee — Louie, Christine  
 Lu, Cindy — Chu, Cindy  
 Ly, Binh Van — Lo, Melissa  
 Ly, My Hanh — Lo, Karen  
 Ly, Thanh Dung — Lo, Kevin  
 Ma, Wai Ling — Sun, Wai Ling  
 MacEachern, David Allen — Pollak, David Allen  
 MacLeod, Viola Elizabeth — Scola, Viola Elizabeth  
 Madsen, Lise Junker — Frazer, Lise Junker  
 Mahmoodzadeh-Akherat, Seyed Morteza — Neek, Morteza  
 Maine, Jeannie Sonia — Maine, Janine Sonia  
 Mainville, Tanya Michelle — Pana, Tanya Michelle  
 Mariano, Evelyn Delo-Reyes — Grant, Evelyn Delo-Reyes  
 Mariathan, Mary Anita Jayanthi — Nimalakumar, Mary Anita Jayanthi  
 Marshall, Dana Erin — Hoit, Dana Erin Marshall  
 Marshall, Graeme Spencer Davis — Hoit, Graeme Spencer Davis Marshall  
 Martic, Dragana — Martic, Ryan Alexandra  
 Martin, Deanna Michelle — Martin Deary, Deanna Michelle  
 Martin, Patricia Lynn — Stonner, Patricia Lynn  
 Mattocks, Janet Beverley — Ricketts, Janet Beverley  
 McGrorey, Nancy Marie — Harrietha, Nancy Marie  
 McConkey, Kelly Lynn — Purbs, Kelly Lynn  
 McGuire, Nancy Lorraine — Wheatley, Nancy Lorraine  
 McKibbon, Marilyn Elaine — Taylor, Marilyn Elaine  
 McMahon, Gerald Frank — McMahon, Gerald Robert  
 Meeks, Catherine Lillian — Hagger, Elizabeth Anne  
 Menard, Marie Annette Jinette Jacqueline — Menard, Annette Natasha Jacqueline  
 Michaud, Marie Jacqueline — Duck, Marie Jacqueline  
 Middleton, Zachary James Berry — Aldom, Zachary James Berry  
 Mina, Simona Jeanina — Mazat, Simona Jeanina  
 Mladenovic, Dragana — Simon, Dragana  
 Mohammed, Alicia Lisa — Taheri, Alicia Lisa  
 Molochnik, Dina — Duhon, Dina

Monague, Daniel Stephen Bernard — Bigcanoe, Daniel Stephen Bernard  
 Montero, Mary Lela Kim — Montero, Gwynann Mary Lelea  
 Mortimer, Suzanne Michelle — Morrison, Suzanne Michelle  
 Mungroo, Chandrowtie — Dhar, Bobbie Roy  
 Muse, Ibrahim Mohamed — Mohamed, Abdulrahman Ahmed  
 Nasim, Amir Mamza — Umar, Hamza  
 Neill, Samuel Joseph Eliot — Oh Neill, Samuel Joseph Eliot  
 Ng, Carolyn Louise — Smith, Carolyn Louise  
 Nguyen, Steven — Mac, Steven T. H.  
 Northcott, Julie Kathleen — Brignall, Julie Kathleen  
 O'Leary, Richard Francis — Ieritano, Richard Francis  
 Oliveira, Gabriel Jesus — Rivers-Garcia, Gabriel Jesus  
 Olleros, Brent David — Ashton, Steven David  
 Pacala, Corina-Violeta — San-Marina, Corina-Violeta  
 Pal, James Gordon — Skinner, James Gordon  
 Panchal, Preeti Jayantilal — Kapila, Pritika  
 Papastathis, Adam Thomas — Pappas, Adam Thomas  
 Papastathis, George — Pappas, George  
 Penney, James Harold — Johnstone, James Harold  
 Perera, Rujith Dinesh — De Zoysa, Rujith Lukshika Donald  
 Perera, Rukshika Romash — De Zoysa, Rukshika Anthony  
 Perry, Wendy Heather — Segal, Wendy Heather  
 Phung, Thieu Ha — Phung, Monica  
 Pineo, Lana Jane — Ferguson, Lana Jane  
 Podsiadly, Jerzy — Kleinknecht, Jerzy  
 Poulton, Bobbi Marie — Chrysler, Bobbi Marie  
 Prakasha, P. — Aithal, Prakasha  
 Preshing, Kimberly Rose — Lalonde, Kawissa Rose Amber  
 Rae, Lisa Christine — Rae Strutton, Lisa Christine  
 Rajkumar, Shanmugadeepan — Shanmugarajah, Shanmugadeepan  
 Ramdularie, Ramrattie — Ramdularie, Ann  
 Ratnasabapathy, Srirajini — Balasubramaniam, Srirajini  
 Rennie, Kathryn Margaret — Osler, Kathryn Margaret  
 Revivis, Lucita De Jesus — Di Iorio, Lucita De Jesus  
 Riley, Sean Robert — O'Reilly, Sean Robert  
 Roberts, Amoriza — Gunnimk, Amoriza  
 Sabaratnan, Chandra — Ketheeswaran, Chandra  
 Samaranayake, Tania Falon Dilrukshi — Boteju, Tania Falon Dilrukshi  
 Samlal, Valerie Keemoy — Young-Lao, Valerie Keemoy  
 Sargeant, Althea Caesarene — Dempsey, Althea Caesarene  
 Secareanu, Constanta-Carmen — Perteau, Constanta-Carmen  
 Seguin, Marie Helene Edna Martine — Normand, Marie Helene Edna Martine  
 Senten, Monique Marie-Josée — Somers, Monique Marie-Josée  
 Shaw, Jodi Lynn — Glamna, Jodi Lynn  
 Sheldon, Rhonda Marion — Sheldon, Marion Rhonda Williamina  
 Silva, Rodrigo Soares — Cubric, Rodrigo Soares Silva  
 Sistermans, Keri Leigh — Storey, Keri Leigh  
 Sisto, Josephine Maria — Campagna, Josephine Maira  
 Sisto, Maria Guiseppa — Sisto, Josephine Maria  
 Slusarchuk, Jocelyn Aileen — Kingswell, Jocelyn  
 Slusarchuk, Sandra Lynn — Kingswell, Sandra Lynn  
 Smith, Susan Mary — Foster, Susan Mary  
 Sokoloff, Randi — Meilach, Randi  
 Song, Xizhan — Song, Mike Xizhan  
 Sothilingam, Ithayajothy — Parameswaran, Ithayajothy  
 Spano, Anthony Carl — Ambroziak, Anthony Carl  
 St Jean, Michelle Louise — Monaghan, Michelle Louise  
 St John, Shannon Linda — Forsyth, Shannon Linda  
 Stillech, Udo — Stillech, John Udo  
 Stojavljevic, Zoran — Stanislawsky, Ron  
 Sunner, Jasvir Kaur — Sandhu, Jasvir Kaur  
 Swift, Leanne Elizabeth — Watson, Leanne Elizabeth  
 Szczepanik, Tomasz Mateusz — Wagner, Thomas  
 Tachdjian, Anoush — Thorose, Anoush  
 Tang, Seak Tou — Tang, Seak Tou Edan  
 Taunton, Jeffrey Scott — Dempsey, Jeffrey Scott  
 Tawfik, Maysa Sanad — Deif, Maysa Sanad  
 Tayles, Adam James — Davis, Adam James  
 Tayles, Karen Lea — Davis, Karen Lea  
 Tayles, Kelly Rose — Davis, Kelly Rose  
 Thornton, Sylina Marie — Thorgrimson, Sylina Marie  
 Thurston, Aaron Alfred John — Leblanc, Aaron Alfred John  
 Thurston, Dawn Marie — Leblanc, Dawn Marie

Toolaram, Dharamdat — Williams, Darren Toolaram  
 Toomey, Stephanie Ann — King, Stephanie Ann  
 Torre, Isabel Marie Alves — Santos, Isabel Maria Alves  
 Toste, Leslie Anne — Toste-Marchao, Leslie Anne  
 Toussanit, Mirlande — Obas, Mirlande  
 Truong, Nguyet — Churilla, Nguyet  
 Valenzuela, Marilyn Domingo — Debeljak, Marilyn Domingo  
 Velauthapillai, Sulochanaa — Murugesapillai, Sulochanaa  
 Veljkovic, Vesna — Jelic, Vesna  
 Villavicencio, Marites — Agaton, Marites  
 Vishnu, Kamal Lochanie — Alagurajah, Kamal Lochanie  
 Wakelin-Vandenberg, Jordan Matthew — Vandenberg, Jordan Matthew Wakelin  
 Walton, Dennis Richard — Bragg, Dennis Richard  
 Walzer, Christine Ann — Walzer, Hanaa Abdallah  
 Wang, Sean Xiang Dong — Lim, Sean Yi  
 Ward, Susan Kelly — Belchior, Susan Kelly  
 Warrick, Hazel Vivian — Graham, Vivian  
 Watton, Sara Lynn Rose — Valiquette, Sara Lynn Rose  
 Weatherall, Sharol Ann — Walker, Sharol Ann  
 Wentges, Robert William — Leith-Wentges, Robert William  
 Whiklo, Billie — Whitla, Jack  
 Williams, Joseph Omer — Williams, Jack Homer  
 Williams, Karen Elaine — Williams, Karyn Elayne  
 Williams Isaac, Catherine Margaret — Tolles, Catherine Margaret  
 Wong, Ting Kwai Lawrence — Wong, Lawrence Ting Kwai  
 Xiao, Dong — Black, Sara Elizabeth Xiao  
 Yeo Beeston, Kristin Jennifer — Yeo, Kristin Jennifer  
 Yip, Siu Man — Yip, Mary Siu Man  
 Younes, Hazar — Younes, Hazaar  
 Yurichuk, Judith Ann — Yurchuk, Judith Ann

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 INDIRA SINGH,  
 Deputy Registrar General

## Courts of Justice Act Loi sur les tribunaux judiciaires

### INTEREST RATES

1. Postjudgment interest rates (and prejudgment interest rates for causes of action arising on or before October 23, 1989) are as follows:

	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
1985	12%	13%	11%	11%
1986	11%	13%	10%	10%
1987	10%	9%	10%	11%
1988	10%	10%	11%	12%
1989	13%	13%	14%	14%
1990	14%	15%	15%	14%
1991	14%	11%	11%	10%
1992	9%	9%	8%	7%
1993	10%	8%	7%	6%
1994	6%	6%	8%	7%
1995	8%	10%	9%	8%
1996	8%	7%	6%	6%
1997	5%	5%	5%	5%
1998	5%			

This table shows the postjudgment interest rates for orders made in the quarters indicated. This table also shows the prejudgment interest rates for actions commenced in the quarters indicated in respect of causes of action arising on or before October 23, 1989.

2. Prejudgment interest rates for causes of action arising after October 23, 1989 are as follows:



	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
1989				12.4%
1990	12.5%	13.5%	13.9%	12.9%
1991	12.3%	10.0%	9.1%	8.8%
1992	7.7%	7.5%	6.3%	5.1%
1993	8.3%	6.1%	5.1%	5.0%
1994	4.3%	4.1%	6.6%	5.6%
1995	6.0%	8.0%	7.6%	6.6%
1996	6.1%	5.6%	5.0%	4.3%
1997	3.3%	3.3%	3.3%	3.5%
1998	4.0%			

This table shows the prejudgment interest rates for actions commenced in the quarters indicated in respect of causes of action arising after October 23, 1989.

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(6122) 51

## Management Board Secretariat Secrétariat du Conseil de Gestion

### *Conflict of Interest and Post-Service Directive*

Corporate Policy Branch  
Program Management & Estimates Division  
Management Board Secretariat

October 28, 1997

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### *Conflict of Interest and Post-Service Directive for Public Servants and Public Officials*

#### Introduction

The public is entitled to expect the highest standards of conduct from all individuals who work for the government of Ontario. This directive outlines the public service values and standards that will ensure government activities are conducted in an open, fair and transparent manner.

#### What is Conflict of Interest?

Any situation where an individual's private interests may be incompatible or in conflict with their public service responsibilities.

#### PART 1: APPLICATION AND PRINCIPLES

##### Purpose

- The purpose of this directive is to enhance public confidence in the integrity of public servants, public officials and the decision-making process in government by:
  - setting clear rules of conduct for conflict of interest and post-service practices that apply to all public servants and public officials
  - reducing the possibility of conflicts between the private interests and public service duties of public servants and public officials
  - providing the means to resolve such conflicts in the public interest.
- This directive is based on a regulation under the *Public Service Act*. The wording in this directive is not intended to substitute for the actual wording in the regulation. Where there are differences between this directive and the regulation, the regulation will prevail.



3. All information collected, used and disclosed under this directive is employment related and the government maintains a legal interest in it. Information may be collected, used and disclosed as is necessary to comply with this directive.

### Application and Scope

4. The Conflict of Interest and Post-Service Directive applies as follows:
- (a) The "Mandatory Requirements - Conflict of Interest Provisions for Public Servants and Public Officials" (Part 2) apply to all public servants and public officials
  - (b) The "Mandatory Requirements - Post-Service Restrictions" (Part 3) apply to senior public servants and public officials
  - (c) The "Mandatory Requirements - Provisions Relating to Privatization Matters" (Part 4) apply to senior public servants and senior public officials involved on a routine basis or on a specific file basis in privatization matters.

### Interpretation

5. For the purpose of this directive,
- (a) "Public Servant" means:
    - a person who is appointed under the Public Service Act to the service of the Crown.
  - (b) "Public Official" means:
    - a person who is not a public servant and is in a full-time employment relationship with the Crown employed by:
      - the Privatization Secretariat,
      - a ministry to work on a specific privatization matter that has been referred to the Privatization Secretariat.
  - (c) "Designated Official" is the individual or party that is responsible for applying the conflict of interest provisions, as set out in Part 2, that govern the day-to-day in-service activities of public servants and public officials. The designated officials are:
    - the Deputy Minister or agency head, as appropriate, for public servants
    - the Secretary of Cabinet for Deputy Ministers
    - the Premier for the Secretary of Cabinet
    - the Integrity Commissioner for staff in the Premier's office and ministers' offices, staff of the Privatization Secretariat and other public officials.
  - (d) "Designated Third Party" is the individual or party that is responsible for applying the conflict of interest provisions that deal with post-service issues (as set out in Part 3) and any conflict of interest issues relating to privatization matters (as set out in Part 4). The designated third parties are:
    - the Integrity Commissioner, or
    - the Independent Commissioner, or
    - the Civil Service Commission.
 (see Part 5 for full description of roles and responsibilities)
  - (e) Senior Public Servants include:
    - (i) Secretary of Cabinet
    - (ii) Deputy Ministers
    - (iii) senior staff in the Premier's Office and Ministers' Offices (as set out in Appendix C)

- (iv) public servants (except for clerical and secretarial staff) in the Privatization Secretariat
- (v) Senior Management Group (SMG) 2 and 3
- (vi) any other individuals designated, under Part 3, to whom post-service restrictions will apply.

- (f) "Confidential Information" means:

- information that is not available to the public and that, if disclosed, could result in loss or damage to the Crown or could give the person to whom it is disclosed an advantage.

### Principles

6. Every public servant and public official shall conform to the following principles:

- (a) *Ethical Standards*

Public servants and public officials must act honestly and uphold the highest ethical standards. This will maintain and enhance public confidence and trust in the integrity, objectivity and impartiality of government.

- (b) *Public Scrutiny*

Public servants and public officials are obligated to perform their official duties and conduct themselves in a manner that will bear the closest public scrutiny. Public servants and public officials cannot fulfil this obligation simply by acting within the law.

- (c) *Private Interests*

Public servants and public officials shall not have private interests, other than those permitted pursuant to this directive, laws or statutes, that would be affected particularly or significantly by government actions in which those public servants and public officials participate.

- (d) *Public Interests*

When appointed to office, and thereafter, public servants and public officials must arrange their private interests to prevent real or potential conflicts of interest. If a conflict does arise between the private interests of a public servant or public official and the official duties and responsibilities of that individual, the conflict shall be resolved in favour of the public interest.

### Failure to Comply

7. (a) A public servant or public official who does not comply with the measures in this directive will be disciplined as appropriate. Disciplinary measures may include discharge or termination of appointment.
- (b) Civil action may be taken against any individual, outside entity or organization where failure to comply with the requirements of the Corporate Management directives and/or the regulation under the *Public Service Act* dealing with conflict of interest results in loss or damage to the Crown.
- (c) An employee of the government who is found to have engaged in influence peddling may be prosecuted under the Criminal Code of Canada.

## PART 2: MANDATORY REQUIREMENTS

### CONFLICT OF INTEREST PROVISIONS THAT APPLY TO ALL PUBLIC SERVANTS AND PUBLIC OFFICIALS

#### Objective

8. The conflict of interest provisions in this Part set out the requirements that must be observed to reduce the risk of conflict of interest and to resolve such conflicts should they arise.

**Confidentiality**

9. Information about the private interests of public servants and public officials that is provided to the designated official is treated in strictest confidence and shall not be disclosed except as required by law in connection with a legal proceeding in relation to this directive or in accordance with this directive.

**General Conflict of Interest Provisions****A. Outside Activities**

10. A public servant or public official shall not engage in any outside work or business undertaking:
- (a) that is likely to result in a conflict of interest
  - (b) that interferes with the individual's ability to perform his or her duties and responsibilities; for example, by placing demands on the individual that are inconsistent with his or her duties or calling into question the individual's ability to perform his or her official duties objectively
  - (c) in which an advantage is derived from his or her employment as a public servant or public official
  - (d) in which the outside work would otherwise constitute full-time employment for another person
  - (e) in a professional capacity that will, or is likely to, influence or affect the carrying out of his or her duties as a public servant or public official
  - (f) that involves the use of government premises, equipment or supplies.

**B. Prohibited Use of Position**

11. Public servants and public officials shall not use, or seek to use, their positions or employment with the Crown to:
- (a) gain direct or indirect benefit for themselves or their spouses or children
  - (b) solicit or accept favors or economic benefits from any individuals, organizations or entities known to be seeking business or contracts with the Crown
  - (c) favor any person, organization or business entity.

**C. Confidential Information**

12. Public servants and public officials shall not:
- (a) disclose any confidential information about any Crown undertaking, acquired in the performing of duties for the Crown, to any person or organization not authorized by law or by the Crown to have such information
  - (b) benefit directly or indirectly in return for or in consideration for revealing confidential information
  - (c) use confidential information in any private undertaking in which they are involved.

**D. Gifts, Hospitality and Other Benefits**

13. Public servants and public officials must refuse gifts, hospitality or other benefits that could influence their judgment and performance of official duties. Public servants and public officials must not accept, directly or indirectly, any gifts, hospitality or other benefits from:
- (a) persons, groups or organizations dealing with the government

- (b) clients or other persons to whom they provide services in the course of their work as public servants or public officials.

14. All the same, public servants and public officials may accept incidental gifts, hospitality or other benefits associated with their official duties and responsibilities if such gifts, hospitality or other benefits:

- (a) are appropriate, a common expression of courtesy or within the normal standards of hospitality
- (b) do not cause suspicion about the objectivity and impartiality of the public servant or public official
- (c) would not compromise the integrity of the government.

15. When they cannot refuse unauthorized gifts, hospitality or other benefits, public servants and public officials must immediately report the matter to the designated official. The designated official may require that such a gift be held by the ministry or given to charity or such other action as he or she may determine.

**E. Avoidance of Preferential Treatment**

16. A public servant or public official shall not:

- (a) grant preferential treatment in relation to any official matter to any person, organization, family member or friend, or to any organization in which the public servant or public official, family member or friend has an interest. The public servant or public official must avoid being obligated, or seeming to be obligated, to any person or organization that might profit from special consideration
- (b) offer assistance in dealing with the government to any individual or entity where such assistance is outside the official role of the public servant or public official.

17. Subject to the decision of or conditions set by the designated official, a public servant or public official shall not:

- (a) hire or contract with members of his or her immediate family, that is, his or her spouse, parents, children, siblings
- (b) occupy a position where one immediate family member reports directly to another.

**F. Procurement**

18. A public servant or public official shall not:

- (a) help any outside entities or organizations in any transactions or dealings with the Crown in a way that contravenes the provisions of this directive (for complete details on the procurement process, see the directive on procurement)
- (b) give confidential information associated with a transaction, except as required in a transaction, to any outside entity or organization about a Crown undertaking before the transaction or dealing with the Crown is completed.

**G. Political Activity**

19. The political activities of Crown employees are governed by the *Public Service Act*.

20. These individuals must not engage in political activity at work and must not associate their positions with political activity. A general prohibition in the statute warns against engaging in political activity that would place the employee in a position of conflict of interest with the Crown. For complete details on the rights and prohibitions relating to political activity for Crown employees, refer to the *Public Service Act*.



**H. Taking Improper Advantage of Past Office**

21. The government of Ontario maintains a legal interest in the post-service activities of former public servants and former public officials. As such, public servants and public officials shall not, after leaving employment with the Crown, take improper advantage of their past offices. For example, a public servant or public official shall not do the following, including:
- (a) allow prospects of outside employment to create a real or potential conflict of interest while in public service with the Crown
  - (b) seek preferential treatment or privileged access to government after leaving public service with the Crown
  - (c) take personal advantage of information obtained through official duties and responsibilities that is not available to the public
  - (d) use public office to unfair advantage in gaining opportunities for outside employment.

In addition to these general provisions, individuals should refer to Part 3 and review their circumstances to determine whether post-service restrictions may apply when leaving employment with the Crown.

Any determination made under this section by the designated official does not bind the designated third party in the application of post-service restrictions under Part 3.

**I. Switching Sides**

22. (a) A public servant or public official who has advised the government on a specific proceeding, transaction, negotiation or case shall not upon ceasing employment with the Crown act for or on behalf of any person, commercial entity, association or union in connection with that specific proceeding, transaction, negotiation or case to which the government is a party.
- (b) Subsection 22 (a) does not apply where a proceeding, transaction, negotiation or case is completed or the Crown has ceased to be involved.

**The Duty to Disclose**

23. (a) Any situation covered by the provisions in this Part that may be a real or potential conflict of interest between the private interests of a public servant or a public official and his or her duties and responsibilities to the Crown must be disclosed to the designated official to resolve. This includes:
- (i) any conflict of interest in which the individual may benefit personally from the matter that, in the course of the individual's duties, he or she can influence
  - (ii) any conflict of interest situation arising from the individual's outside activities.
- (b) Where there may be a conflict of interest in a particular situation, the public servant or public official must make a confidential report to the designated official. The report must identify the nature of the potential conflict of interest.
- (c) The designated official may require that the identified activity be curtailed, modified or stopped if he or she concludes that a real or potential conflict of interest exists.
24. Where the conflict of interest relates to consideration of a matter by a board, selection panel or other decision-making group, the public servant or public official must tell the other members of the board, panel, committee or group about the general nature of the conflict. The public servant or public official must withdraw from consideration of the matter without participating.

**PART 3: MANDATORY REQUIREMENTS****POST-SERVICE RESTRICTIONS FOR SENIOR PUBLIC SERVANTS AND PUBLIC OFFICIALS****Application**

25. The government of Ontario maintains a legal interest in the post-service activities of former public servants and former public officials. As such, in addition to the general provisions in Part 2, this Part details the additional post-service restrictions that apply to senior public servants and public officials as identified in Part 1, section 5.

**Principles**

26. It is in the public interest to facilitate the movement of individuals and the transfer of skills and knowledge to private and public sector organizations dealing with the Crown.
27. In dealings with the private sector, the interests of the Crown must be protected. At the same time, post-service restrictions should not unjustifiably restrict the movement of senior public servants and senior public officials to the private sector. In addition, senior public servants and senior public officials should not be restricted from using their knowledge and expertise gained through employment with the Crown about the operation of government.
28. When service to the Crown ends, a former senior public servant/public official continues to owe obligations to the Crown because of the confidentiality of the information to which he or she was privy. Confidential government information must not be used for personal gain or commercial advantage.

**The Post-Service Restriction**

29. The intention of this part is to clarify that individuals are allowed to use their expertise and knowledge gained through employment with the Crown to gain post-service employment with outside entities unless specific circumstances as described in sections 30, 31 and 32 apply, in which case the individual is required to get a decision in accordance with Part 5.
30. (a) After leaving service with the Crown, a former senior public servant or former senior public official is restricted for 12 months from accepting employment with or appointment to the board of an outside entity:
- (i) if that individual had substantial involvement with that outside entity in the course of his or her employment by the Crown during the 12 months before he or she ceased to be a senior public servant or senior public official; and
  - (ii) if he or she had, or had access to, confidential information (in the course of his or her employment by the Crown during the 12 months before he or she ceased to be a senior public servant or senior public official) that, if disclosed to that outside entity, could result in loss or damage to the Crown or could give the outside entity an unfair advantage.

Where a former senior public servant or former senior public official accepts a position with an outside entity and possesses or had access to confidential information, the release of which could provide that entity with an unfair advantage or cause loss or damage to the Crown, that outside entity may be restricted during the 12 month period from doing business with the Crown (with respect to matters in which that confidential information may result in an unfair advantage or loss or damage to the Crown).

The Crown may seek damages for the misuse of confidential information from the former public servant/public



official and/or any organization which uses the confidential information where the damages are quantifiable and recoverable.

- (b) For 12 months after leaving the service of the Crown, a former senior public servant or a former senior public official is restricted from lobbying for or on behalf of any person, entity or organization, to any ministry or organization with the Crown with which the individual worked in the 12 months prior to leaving the service of the Crown.

Where a former senior public servant or former senior public official lobbies the Crown on behalf of an organization in contravention of the requirements of this section, the Crown reserves the right not to do business with that organization with respect to that particular issue or transaction.

#### **Designation of Additional Persons to whom Post-Service Restrictions will apply**

31. In addition to the senior public servants and senior public officials identified in section 5, under certain circumstances, from time to time individuals who are not senior public servants or senior public officials may also be designated as being subject to the 12 month post-service restriction period.
32. An individual may be designated as being subject to the post-service restrictions if he or she is performing or has performed a function in a position (in the course of his or her employment with the Crown during the past 12 months) requiring that individual:
- (i) to have substantial involvement with the outside entity; and
  - (ii) to have, or had access to, confidential information that, if disclosed to that outside entity, could result in loss or damage to the Crown or could give the outside entity an unfair advantage.
33. The following person may designate, from among the group of persons specified, one or more individuals to whom the post-service restrictions shall apply:
- (a) The Principal Secretary to the Premier may designate persons employed in the Premier's Office
  - (b) A minister may designate persons employed in his or her office
  - (c) The chief executive officer of the Privatization Secretariat may designate persons employed in the secretariat
  - (d) A deputy minister may designate persons employed in the ministry of which he or she is deputy.
34. (a) The person who under section 33 designates an additional person to whom post-service restrictions apply shall inform the Civil Service Commission of such persons.
- (b) The Civil Service Commission shall maintain a list of designated persons and shall notify individuals on the list and the appropriate designated third party that the individual has been designated as being subject to post-service restrictions.
- (c) The conflict of interest provisions relating to post-service restrictions apply to an identified individual only once the individual has been specifically notified under section 34 (b).

#### **Review of the Post-Service Restriction**

35. (a) The designated third party may, in accordance with Part 5:
- (i) decide whether post-service restrictions apply in particular situations

- (ii) set out the terms and conditions as to the post-service restriction.

- (b) The designated third party may consider the following matters when making a decision in a particular case:

- (i) the importance of the confidential information held by or accessible to the individual in the course of performing his or her duties to the Crown
- (ii) the desirability of a rapid transfer of the individual's knowledge and skills from the government to private, non-profit or other government sectors
- (iii) the degree to which the outside group or entity could gain a commercial advantage or cause loss or damage to the Crown by hiring the individual
- (iv) the extent to which the employee had substantial involvement and confidential information
- (v) decisions made and conditions imposed in other cases
- (vi) other matters that the designated third party considers relevant.

- (c) In accordance with Part 5, a decision shall consist of advice that is communicated in writing to the applicant and to all departments affected by the advice; this advice is not a matter of public record.

36. In some situations the function of a senior public servant or public official may be transferred to an outside entity or organization; and the senior public servant or public official may have had substantial involvement with that outside entity.

In such instances, as part of the staffing strategy in the business case a ministry may request the Civil Service Commission to provide an exemption from the post-service restriction on the basis that it is in the government's best interests to transfer the identified individuals to the receiving entity or organization.

### **PART 4: MANDATORY REQUIREMENTS**

#### **PROVISIONS RELATING TO PRIVATIZATION MATTERS**

37. No person acting on behalf of the Crown in relation to the privatization of a Crown undertaking should be in a position to benefit personally from such a privatization or a proposed privatization. Benefits to such persons must be limited to the remuneration they receive from the Crown for their services.

#### **Application**

38. Public servants and public officials are subject to the general "Conflict of Interest Provisions" in Part 2. Senior public servants and public officials are also subject to the "Post-Service Restrictions" in Part 3. Public servants and public officials involved in the privatization of a Crown business, enterprise, institution or program that is under the review of the Privatization Secretariat are subject to additional requirements and restrictions.

Privatization matters are those matters or files which have been referred by Cabinet for review by the Privatization Secretariat.

39. The conflict of interest provisions in this Part apply to:

- (a) senior public servants and senior public officials as listed in Appendix A who are routinely involved in a variety of privatization matters and possess or have access to confidential information relating to those issues

- (b) senior public servants and senior public officials who hold positions listed in Appendix B and are involved in specific privatization files and possess or have access to confidential information relating to those specific files, and who are also designated by the designated official
  - (i) the person who designates a person under section 39 (b) shall inform the Civil Service Commission of such persons
  - (ii) the Civil Service Commission shall maintain a list of designated persons and shall notify individuals on the list and the appropriate designated third party that the individual has been designated as being subject to Part 4 as it pertains to persons designated under section 39 (b)
  - (iii) the conflict of interest provisions relating to involvement in a specific privatization file apply to an identified individual only once the individual has been specifically notified under section 39 (b) (ii).
- (ii) fixed-value securities issued or guaranteed by a government or by a government agency
- (iii) a guaranteed investment certificate or similar financial instrument issued by a financial institution entitled by law to issue such instruments
- (iv) a registered pension plan, an employee benefit plan, an annuity or life insurance policy or deferred profit sharing plan
- (v) real property that the public servant or public official, or a member of his or her family, uses primarily as a residence or for recreational purposes.
- (e) All information on financial interests that is disclosed is provided in the strictest confidence and shall not be disclosed except as required by law in connection with a legal proceeding in relation to this directive or in accordance with this directive.

#### Routinely Involved in Privatization

40. (a) Those individuals designated as routinely involved in privatization issues, and possessing or having access to related confidential information, are required to make a private financial disclosure of their financial interests to the appropriate designated third party for privatization matters. For the purposes of this section, "interest" means beneficial or legal interest.
- (b) The financial interests of a designated individual's spouse or dependent children shall also be disclosed where these interests could create a conflict of interest.
- (c) Financial interests to be disclosed are defined for the purposes of section 40 to be:
- (i) an interest of the public servant or public official in securities or derivatives of corporations or governments, other than the Government of Ontario
  - (ii) an interest of the public servant or public official in a business entity or commercial operation or in the assets of such an entity or operation
  - (iii) an interest of the public servant or public official in real property
  - (iv) an interest of the public servant or public official in a mutual fund that is operated as an investment club where,
    - its shares or units are held by not more than 50 persons and its indebtedness has never been offered to the public,
    - it does not pay or give any remuneration for investment advice or in respect of trades in securities, except normal brokerage fees, and
    - all of its members are required to make contributions in proportion to the shares or units each holds for the purpose of financing its operations.
- (d) For the purposes of section 40(a)(b), the following financial interests are not required to be disclosed:
- (i) a mutual fund within the meaning of subsection 1 (1) of the Securities Act other than a mutual fund described in section 40(c)(iv) above

#### Involved in Specific Privatization

41. Individuals involved in specific privatization files, and possessing or having access to confidential information related to those files, are required to make a declaration to the Crown at the outset of their involvement in the specific privatization issue. This declaration must specify that there is no conflict, either real or potential, between their private interests and the duties they will be engaged in on behalf of the Crown.
42. Public servants and public officials shall promptly disclose any change in their circumstances under this Part, such that their private interests could conflict with their duties to the Crown, to the appropriate designated third party or designated official, as appropriate. Individuals shall comply with the direction of the designated official or designated third party.

#### Purchase of Shares or Equity

43. Public servants or public officials involved in privatization matters referred to the Privatization Secretariat shall not purchase or cause another person to purchase on his or her behalf, or shall not cause any entity in which the public servant or public official has a beneficial interest to purchase, shares or equity in a government business that has been privatized or in any organization that is offering to purchase or has purchased a privatized government business. For the purposes of this section, "interest" means beneficial or legal interest.
- (a) This restriction applies for a period of six months after the date that the Crown has completed the disposition of all its financial interests in a government business that it previously operated. The designated third party may vary the restriction period for an individual.
  - (b) This restriction does not apply to the purchase of mutual funds, as defined in section 40(d)(i), which include shares and equity of such companies.
  - (c) For those designated as routinely involved in privatization issues, this restriction applies to all privatization files.
  - (d) For those designated as involved in specific privatization issues, this restriction applies to those specific privatized entities.
  - (e) If recommended by the Cabinet Committee on Privatization, Cabinet may increase the restriction period for any specific privatization.



**PART 5: ROLES AND RESPONSIBILITIES****Overview**

44. This Part describes the roles and responsibilities of the designated official and the designated third parties:

(a) The “Designated Official” is the individual or party that is responsible for applying the conflict of interest provisions, as set out in Part 2, that govern the day-to-day in-service activities of public servants and public officials. The designated officials are:

- the Deputy Minister for public servants
- the Secretary of Cabinet for Deputy Ministers
- the Premier for the Secretary of Cabinet
- the Integrity Commissioner for staff in the Premier’s office and ministers’ offices, staff of the Privatization Secretariat and other public officials.

(b) The “Designated Third Party” is the individual or party that is responsible for applying the conflict of interest provisions that deal with post-service issues (as set out in Part 3) and any conflict of interest issues relating to privatization matters (as set out in Part 4). The designated third parties are:

- the Integrity Commissioner, or
- the Independent Commissioner, or
- the Civil Service Commission, or
- the Deputy Minister.

45. The designated official or the designated third party may collect, use and disclose information as is necessary to undertake his or her duties under this directive. All information collected, used and disclosed under this directive is employment related and the government maintains a legal interest in it.

46. (a) A public servant or public official shall cooperate with the designated official or designated third party or their agent in the discharge of his or her duties under this directive. For that purpose, he or she shall give the designated official or designated third party such information and documents as he or she may request.

(b) A public servant or public official is not required to give the designated official or designated third party any information or documents that, by law, the public servant or public official is required to keep confidential.

47. All information disclosed in accordance with this directive is provided in the strictest of confidence and shall not be disclosed by the designated official or the designated third party, except:

- (a) by the individual or with his or her consent
- (b) as required by law in connection with a legal proceeding in relation to this directive
- (c) to such persons, if any, as the designated official or the designated third party may consult in respect of the conflict of interest, on the express understanding that such persons shall be bound by the terms of this section, or
- (d) otherwise in accordance with this directive.

**The Designated Official**

48. The provisions in this section apply to all designated officials i.e. Deputy Minister, Secretary of Cabinet, Premier, and Integrity Commissioner.

**Who deals with day-to-day in-service issues**

Individuals	Designated Official for In-Service Issues
Secretary of Cabinet	Premier
Deputy Ministers	Secretary of Cabinet
Public Servants at SMG 2 and 3 levels	Deputy Minister*
Public Servants below SMG 2 level	Deputy Minister*
Senior staff in the Premier’s Office and Ministers’ Offices	Integrity Commissioner
Other staff in the Premier’s Office and Ministers’ Offices	Integrity Commissioner
Staff of the Privatization Secretariat	Integrity Commissioner
Persons in a full-time employment relationship with the Crown working on specific privatization files	Integrity Commissioner

\*or agency head as appropriate

**The Role of the Designated Official**

49. Under the provisions of the *Public Service Act*, the designated official is responsible for dealing with any real or potential contravention of the conflict of interest provisions that apply to public servants and public officials employed by the ministry or program area for which the designated official is responsible. The following chart summarizes the conflict of interest provisions (as detailed in Part 2 of this directive) that apply to all public servants and public officials and that will be dealt with by the designated official:

Individuals to whom provisions apply	Conflict of Interest provisions that will be dealt with by the Designated official
All public servants and public officials in the ministry for which the designated official is responsible	<ul style="list-style-type: none"> <li>(a) engagement in outside activities (s.10)</li> <li>(b) use of position or employment with the Crown to gain an unfair benefit (s.11)</li> <li>(c) use of confidential information to gain unfair advantage or benefit (s.12)</li> <li>(d) the acceptance of gifts, hospitality and other benefits (s.13-15)</li> <li>(e) the avoidance of preferential treatment in relation to official matters and family members (s.16-17)</li> <li>(f) the procurement process (s.18)</li> <li>(g) political activity (s.19-20)</li> <li>(h) taking improper advantage of past office (s.21)</li> <li>(i) switching sides (s.22)</li> <li>(j) the duty to disclose a real or potential conflict of interest (s.23-24).</li> </ul>

50. The authority of a designated official to deal with areas of conflict of interest is not to be delegated.



*Powers of the Designated Official*

51. Under the authority of the Public Service Act, the designated official has the authority to deal with the day-to-day, in-service conflict of interest issues of public servants and public officials by:
- (a) reviewing and/or investigating a conflict of interest matter
  - (b) deciding whether an actual or potential conflict of interest situation will result or has resulted in the public servant or public official contravening or failing to comply with the general conflict of interest provisions as detailed in Part 2.
52. (a) A designated official shall make a decision regarding a real or potential conflict of interest when requested to do so by Cabinet, the minister of the ministry in which the individual works, or the public servant or public official.
- (b) The designated official may initiate a review or investigation of a possible conflict of interest matter at the request of the public servant's or public official's supervisor.
53. If the designated official determines that the public servant or public official has or will be in a position where he or she will contravene or fail to comply with the conflict of interest provisions, the designated official may take such actions as he or she considers appropriate in the circumstances, including:
- (a) transferring the public servant or public official to another position or assigning him or her to other duties
  - (b) temporarily relieving the public servant or public official from the duties that resulted in the contravention
  - (c) requiring the public servant or public official to notify his or her supervisor of the decisions that he or she proposes to make that could give rise to a contravention; and requiring the public servant or public official to obtain the supervisor's approval for the proposed decisions
  - (d) requiring the individual to take or refrain from taking such steps as the designated official may specify in order to comply with the conflict of interest provisions, including advising the individual to divest himself or herself of an interest in a business or undertaking or to transfer control of it to a neutral third party
  - (e) taking disciplinary measures, imposing penalties, terminating the employment of the public servant or public official, accepting his or her resignation.
54. Where it is determined that a conflict of interest exists and the individual complies with the recommendations made by the designated official to resolve the conflict, the individual shall be deemed to be in compliance with the applicable conflict of interest provision.
55. The designated official shall notify the public servant's or public official's supervisor of the decisions made and the actions taken by the designated official.

**The Designated Third Party**

56. There are three designated third parties, each having specific responsibilities in relation to Parts 3 and 4 of this directive for specific groups of individuals.

**Who deals with Post-Service Matters and Privatization Matters**

Individuals	Designated Third Party for Post-Service Matters	Designated Third Party for Privatization Matters
Secretary of Cabinet	Independent Commissioner	Independent Commissioner
Deputy Ministers	Independent Commissioner	Independent Commissioner (where applicable)
Public Servants at the SMG 2 or 3 level	Civil Service Commission	- Independent Commissioner where routinely involved - Deputy Minister where involved in specific privatization file
Public Servants designated as subject to post-service restrictions	Civil Service Commission	N/A
Senior Staff in the Premier's Office and Ministers' Offices	Integrity Commissioner	Integrity Commissioner
Other staff in Premier's Office and Ministers' Offices	Integrity Commissioner	Integrity Commissioner
Staff in the Privatization Secretariat	Integrity Commissioner	Integrity Commissioner
Persons in a full-time employment relationship with the Crown working on specific privatization files	Integrity Commissioner	Integrity Commissioner

**A. The Integrity Commissioner***The Role of the Integrity Commissioner*

57. The integrity commissioner is the designated third party responsible for dealing with any real or potential contraventions of conflict of interest provisions as follows:

Individuals to whom provisions apply	Conflict of Interest provisions dealt with by the Integrity Commissioner
(a) Senior staff in the Premier's Office and Ministers' Offices  Privatization Secretariat staff  Other public officials	<ul style="list-style-type: none"> <li>• the post-service restrictions as detailed in Part 3 that apply to senior public officials and senior public servants</li> </ul>

(Table continues on next page)

Individuals to whom provisions apply	Conflict of Interest provisions dealt with by the Integrity Commissioner
<p>(b) The following individuals who are routinely involved in privatization matters:</p> <ul style="list-style-type: none"> <li>- staff of the Privatization Secretariat;</li> <li>- identified staff in the Premier's Office and the offices of members of the Cabinet Committee on Privatization</li> <li>- Persons in a full-time employment relationship with the Crown working on specific privatization files</li> </ul> <p>(see Appendix A)</p>	<ul style="list-style-type: none"> <li>• the privatization provisions as detailed in Part 4</li> </ul>
<p>(c) The following individuals who are involved in specific privatization matters:</p> <ul style="list-style-type: none"> <li>- identified staff in the Premier's Office and Ministers' Offices</li> <li>- Persons in a full-time employment relationship with the Crown working on specific privatization files</li> </ul> <p>(see Appendix B)</p>	<ul style="list-style-type: none"> <li>• the privatization provisions as detailed in Part 4</li> </ul>

#### *Powers of the Integrity Commissioner*

58. For the purposes of this directive and with respect to any duties noted in this directive, the integrity commissioner is the designated third party with the authority to:
- review and/or investigate a conflict of interest matter
  - decide whether an actual or potential conflict of interest situation will result or has resulted in the individual (as identified in section 57) contravening or failing to comply with the post-service restrictions (as detailed in Part 3), or the privatization provisions (as detailed in Part 4); the decision must be made within 10 working days following receipt of all information necessary to make the decision.
  - ensure compliance with the mandatory financial disclosure requirements for individuals who are routinely involved in privatization matters (Appendix A)
  - ensure compliance with the declaration requirements for individuals who are involved in specific privatization files (Appendix B)
  - determine the course of action required to resolve any conflict of interest issue resulting from disclosures relating to privatization matters.
59. Where it is determined that post-service restrictions as outlined in Part 3 apply, the Integrity Commissioner has the authority to:
- set out the terms and conditions as to the post-service restriction
  - advise on the possible consequences for both the individual and the outside entity with respect to the employment of a public servant or public official to which post-service restrictions apply.
60. (a) The integrity commissioner shall make a decision regarding a real or potential conflict of interest when requested to do so by Cabinet, the minister of the ministry in which the individual works, or the public servant or public official.
- (b) The integrity commissioner may initiate a review or investigation of a possible conflict of interest matter:
- at the request of the individual's supervisor
  - as a result of a real or potential conflict of interest being identified through mandatory financial disclosure or through the making of a declaration of no conflict of interest in relation to a specific privatization matter.
61. In some cases, the integrity commissioner may determine that the individual has or will be in a position where he or she will contravene or fail to comply with the conflict of interest provisions. In such cases, the integrity commissioner may take such actions as he or she considers appropriate in the circumstances, including:
- recommending to the appropriate official that the individual be transferred to another position or assigned to other duties
  - recommending to the appropriate official that the individual be temporarily relieved from the duties that resulted in the contravention
  - requiring the individual to notify his or her supervisor of the decisions that he or she proposes to make that could give rise to a contravention; and requiring the individual to obtain the supervisor's approval for the proposed decisions
  - requiring the individual to take or refrain from taking such steps as the integrity commissioner may specify in order to comply with the conflict of interest provisions, including advising the individual to divest himself or herself of an interest in a business or undertaking, or to transfer control of it to a neutral third party
  - recommending to the appropriate official that disciplinary measures be taken against the employee, penalties imposed, the employee be released or terminated from employment, or the employee's resignation be accepted
  - recommending to the appropriate official that the Crown not do business with the outside entity with which the individual is employed.
62. Where it is determined that a conflict of interest exists and the individual complies with the recommendations made by the integrity commissioner to resolve the conflict, the individual shall be deemed to be in compliance with the applicable conflict of interest provision.
63. The integrity commissioner shall notify the individual's supervisor of the decisions made and the actions taken by the integrity commissioner.

#### **B. The Independent Commissioner**

##### *The Role of the Independent Commissioner*

64. The independent commissioner is the designated third party responsible for dealing with any real or potential contraventions of conflict of interest provisions as follows:



Individuals to whom provisions apply	Conflict of Interest provisions dealt with by the Independent Commissioner
(a) Secretary of Cabinet Deputy Ministers	<ul style="list-style-type: none"> <li>the post-service restrictions as detailed in Part 3 that apply to senior public officials and senior public servants</li> </ul>
(b) The following individuals who are routinely involved in privatization matters: <ul style="list-style-type: none"> <li>the Secretary of Cabinet;</li> <li>identified Deputy Ministers;</li> <li>identified individuals at the SMG 3 level.</li> </ul> (see Appendix A)	<ul style="list-style-type: none"> <li>the privatization provisions as detailed in Part 4</li> </ul>
(c) The following individuals who are involved in specific privatization matters: <ul style="list-style-type: none"> <li>identified Deputy Ministers</li> </ul> (see Appendix B)	<ul style="list-style-type: none"> <li>the privatization provisions as detailed in Part 4</li> </ul>

#### *Powers of the Independent Commissioner*

65. For the purposes of this directive and with respect to any duties noted in this directive, the independent commissioner is the designated third party with the authority to:

- (a) review and/or investigate a conflict of interest matter
- (b) decide whether an actual or potential conflict of interest situation will result or has resulted in the individual (as identified in section 64) contravening or failing to comply with the post-service restrictions (as detailed in Part 3), or the privatization provisions (as detailed in Part 4); the decision must be made within 10 working days following receipt of all information necessary to make the decision
- (c) ensure compliance with the mandatory financial disclosure requirements for identified individuals who are routinely involved in privatization matters (Appendix A)
- (d) ensure compliance with the declaration requirements for individuals who are involved in specific privatization files (Appendix B)
- (e) determine the course of action required to resolve any conflict of interest issue resulting from disclosures relating to privatization matters.

66. Where it is determined that post-service restrictions as outlined in Part 3 apply, the independent commissioner has the authority to:

- (a) set out the terms and conditions as to the post-service restriction
- (b) advise on the possible consequences for both the individual and the outside entity with respect to the employment of a public servant or public official to which post-service restrictions apply.

67. (a) The independent commissioner shall make a decision regarding a real or potential conflict of interest when requested to do so by Cabinet, the minister of the ministry in which the individual works, or the public servant or public official.

- (b) The independent commissioner may initiate a review or investigation of a possible conflict of interest matter:

(i) at the request of the individual's supervisor

(ii) as a result of a real or potential conflict of interest being identified through mandatory financial disclosure or through the making of a declaration of no conflict of interest in relation to a specific privatization matter.

68. In some cases, the independent commissioner may determine that the individual has or will be in a position where he or she will contravene or fail to comply with the conflict of interest provisions. In such cases, the independent commissioner may take such actions as he or she considers appropriate in the circumstances, including:

- (a) recommending to the appropriate official that the individual be transferred to another position or assigned to other duties
- (b) recommending to the appropriate official that the individual be temporarily relieved from the duties that resulted in the contravention
- (c) requiring the individual to notify his or her supervisor of the decisions that he or she proposes to make that could give rise to a contravention; and requiring the individual to obtain the supervisor's approval for the proposed decisions
- (d) requiring the individual to take or refrain from taking such steps as the independent commissioner may specify in order to comply with the conflict of interest provisions, including advising the individual to divest himself or herself of an interest in a business or undertaking, or to transfer control of it to a neutral third party
- (e) recommending to the appropriate official that disciplinary measures be taken against the employee, penalties imposed, the employee be released or terminated from employment, or the employee's resignation be accepted.

69. Where it is determined that a conflict of interest exists and the individual complies with the recommendations made by the independent commissioner to resolve the conflict, the individual shall be deemed to be in compliance with the applicable conflict of interest provision.

70. The independent commissioner shall notify the individual's supervisor of the decisions made and the actions taken by the independent commissioner.

#### **C. The Civil Service Commission**

##### *The Role of the Civil Service Commission*

71. The Civil Service Commission is the designated third party responsible for dealing with any real or potential contraventions of conflict of interest provisions as follows:

Individuals to whom provisions apply	Conflict of Interest provisions dealt with by the Civil Service Commission
<ul style="list-style-type: none"> <li>Individuals at the SMG 2 or 3 level, including those routinely involved in privatization matters or those involved in specific privatization files</li> <li>individuals designated as being subject to post-service restrictions</li> </ul>	<ul style="list-style-type: none"> <li>the post-service restrictions as detailed in Part 3 that apply to senior public servants</li> </ul>



*Powers of the Civil Service Commission*

72. For the purposes of this directive and with respect to any duties noted in this directive, the Civil Service Commission is the designated third party with the authority to:
- (a) review and/or investigate a conflict of interest matter
  - (b) decide whether an actual or potential conflict of interest situation will result or has resulted in the individual (as identified in section 71) contravening or failing to comply with the post-service restrictions that apply to senior public servants (as detailed Part 3); the decision must be made within 10 working days following receipt of all information necessary to make the decision
73. Where it is determined that post-service restrictions as outlined in Part 3 apply, the Civil Service Commission has the authority to:
- (a) set out the terms and conditions as to the post-service restriction
  - (b) advise on the possible consequences for both the individual and the outside entity with respect to the employment of a public servant or public official to which post-service restrictions apply.
74. (a) The Civil Service Commission shall make a decision regarding a real or potential conflict of interest when requested to do so by Cabinet, the minister of the ministry in which the individual works, or the public servant.
- (b) The Civil Service Commission may initiate a review or investigation of a possible conflict of interest matter at the request of the senior public servant's Deputy Minister.
75. In some cases, the Civil Service Commission may determine that the individual has or will be in a position where he or she will contravene or fail to comply with the conflict of interest provisions. In such cases, the Civil Service Commission may take such actions as it considers appropriate in the circumstances, including:
- (a) recommending to the appropriate official that the individual be transferred to another position or assigned to other duties
  - (b) recommending to the appropriate official that the individual be temporarily relieved from the duties that resulted in the contravention
  - (c) requiring the individual to notify his or her supervisor of the decisions that he or she proposes to make that could give rise to a contravention, and requiring the individual to obtain the supervisor's approval for the proposed decisions
  - (d) requiring the individual to take or refrain from taking such steps as the Civil Service Commission may specify in order to comply with the conflict of interest provisions, including advising the individual to divest himself or herself of an interest in a business or undertaking, or to transfer control of it to a neutral third party
  - (e) recommending to the appropriate official that disciplinary measures be taken against the employee, penalties imposed, the employee be released or terminated from employment, or the employee's resignation be accepted.
76. Where it is determined that a conflict of interest exists and the individual complies with the recommendations made by the Civil Service Commission to resolve the conflict, the individual shall be deemed to be in compliance with the applicable conflict of interest provision.
77. The Civil Service Commission shall notify the public servant's Deputy Minister of the decisions made and the actions taken by the Civil Service Commission.

*Lists of Positions and Individuals Subject to Privatization Provisions*

78. The Civil Service Commission shall maintain a current listing of:
- (a) the names of the individuals and the positions in which public servants or public officials routinely work on privatization matters referred to the Privatization Secretariat and have access to confidential information about those issues obtained during the course of their employment by, or service to, the Crown; (see Appendix A for a current listing of positions)
  - (b) the names of the individuals and the positions in which public servants or public officials work on a particular privatization matter and have access to confidential information about that matter obtained during the course of their employment by, or service to, the Crown. (see Appendix B for a current listing of positions)
79. (a) The Civil Service Commission is responsible for notifying individuals who perform the duties of the positions identified in section 78 that they are subject to the rules applying to involvement in privatization matters. The appropriate designated third party must receive a copy of the notification.
- (b) The Civil Service Commission is responsible for informing these individuals of the applicable conflict of interest provisions and the implications.
- (c) The conflict of interest provisions relating to privatization matters apply to an identified individual only once the Civil Service Commission has specifically notified that individual.

*List of Additional Persons Designated as Subject to Post-Service Restrictions*

80. The Civil Service Commission shall maintain a current listing of:
- individuals who are not senior public servants who have been designated in accordance with Part 3 as being subject to post-service restrictions.

**APPENDIX A**

Positions (or positions of equivalent responsibility) that are routinely involved in all privatization files and designated for the purpose of the privatization provisions as detailed in Part 4:

- a. The Chief Executive Officer and all persons appointed to or retained on a full-time basis by the Privatization Secretariat with the exception of those positions where the duties and responsibilities are entirely clerical;
- b. In the Premier's Office:
  - (i) Chief of Staff;
  - (ii) Director of Policy;
  - (iii) Director of Issues Management and Tour;
  - (iv) Director of Outreach;
  - (v) Director of Communications;
  - (vi) Executive Assistant - Caucus Relations;
  - (vii) Assistant Director of Policy;
  - (viii) Policy Advisors;

- (ix) Special Assistants - Policy;
- (x) Senior Advisor to the Chief of Staff;
- c. In the offices of the members of the Cabinet Committee on Privatization:
  - (i) the Executive Assistant;
  - (ii) Special Assistants or any other person employed whose duties involve advising the member on issues relating to privatization matters being dealt with by the Privatization Secretariat.
- d. The Secretary of Cabinet;
- e. The Secretary of Management Board of Cabinet;
- f. The Deputy Minister of Finance;
- g. The Assistant Deputy Minister, Policy Coordination at Cabinet Office;
- h. The Assistant Deputy Minister, Program Management and Estimates division at Management Board Secretariat;
- i. The Assistant Deputy Minister, Office of Economic Policy and the Assistant Deputy Minister, Fiscal & Financial Policy at the ministry of Finance;
- j. Any other person not employed under the Public Service Act retained on a full-time employment relationship with the crown in Cabinet Office, the Ministry of Finance or Management Board Secretariat whose duties routinely involve advising or assisting the crown, or officials or employees of the crown, on matters relating to the privatization of any crown undertaking.

#### APPENDIX B

Positions (or positions of equivalent responsibility) that may be involved in one or more specific privatization files and designated for the purpose of the privatization provisions as detailed in Part 4:

- a. In a ministry with an identified operation which has been referred to the Privatization Secretariat by Cabinet for review:
  - (i) the Executive Assistant to the minister;
  - (ii) Special Assistants and any other persons on the staff of a minister who is involved in advising on the privatization initiative;
  - (iii) the Deputy Minister;
  - (iv) all public service positions classified at the SMG 2 or 3 level (or equivalent unclassified positions) which involve advising the minister and/or deputy minister on the privatization initiative;
  - (v) Any other person not employed under the Public Service Act retained on a full-time employment relationship with the crown whose duties involve advising or assisting the crown on matters relating to the privatization initiative.
- b. Any public service positions at Cabinet Office, the ministry of Finance and Management Board Secretariat, classified at the SMG 2 or 3 level (or equivalent unclassified positions) which involve the provision of advice or assistance on the specific privatization initiative;
- c. Any other positions in the Premier's Office which involve the provision of advice or assistance on a specific privatization initiative;

- d. Any other person not employed under the Public Service Act retained on a full-time employment relationship with the crown in Cabinet Office, the ministry of Finance or Management Board Secretariat who is involved in the provision of advice or assistance on specific privatization initiatives;

#### APPENDIX C

Senior positions in the Premier's office and ministers' offices (or positions of equivalent responsibility) that are designated as being subject to the post-service restrictions as detailed in Part 3:

- a. In the Premier's Office:
  - (i) Chief of Staff;
  - (ii) Director of Policy;
  - (iii) Director of Issues Management and Tour;
  - (iv) Director of Outreach;
  - (v) Director of Communications;
  - (vi) Executive Assistant - Caucus Relations;
  - (vii) Assistant Director of Policy;
  - (viii) Policy Advisors;
  - (ix) Special Assistants - Policy;
  - (x) Senior Advisor to the Chief of Staff;
- b. In ministers' offices:
  - (i) Executive Assistants
  - (ii) Special Assistants:
    - Legislative Assistants
    - Press Secretary / Communications Assistant
    - Policy Advisors
  - (iii) any other person retained in a minister's office whose duties routinely involve advising or assisting the minister or any other official or employee of the crown.

(6116) 51

## Workers' Compensation Board Commission des accidents du travail

IN THE MATTER OF Section 95 of the  
*Workers' Compensation Act*  
R.S.O. 1990, c.W.11, as amended;

AND IN THE MATTER OF an Occupational Disease Panel  
Report to the Workers' Compensation Board on the  
health effects of occupational exposure to fluids used for  
machining and lubricating metal in manufacturing:  
*Cancer of the rectum.*

#### REQUEST FOR SUBMISSIONS

Section 95 of the *Workers' Compensation Act* provides for the creation of an Occupational Disease Panel (the Panel). It is the function of the Panel to:

- (a) investigate possible occupational diseases;



- (b) make findings as to whether a probable connection exists between a disease and occupational process, trade or occupation in Ontario;
- (c) create, develop and revise criteria for the evaluation of claims respecting occupational diseases; and
- (d) to advise on eligibility rules regarding compensation for claims respecting occupational diseases.

The Panel began to investigate the issue of cancer among workers exposed to metalworking fluids subsequent to a presentation made to the Panel by the national health and safety director of the Canadian Auto Workers (CAW) in 1993. Studies jointly conducted by General Motors and the United Auto Workers had indicated a positive association between a number of types/sites of cancer and the use of machining fluids (straight, soluble or synthetic oils used for metalworking). The CAW urged the Panel to investigate whether any probable connections between particular diseases and metal working fluid exposure could be found.

In November 1997, the Panel provided the Workers' Compensation Board (WCB) with a report (36 pages plus references and eight appendices) entitled "Report to the Workers' Compensation Board on the health effects of occupational exposure to fluids used for machining and lubricating metal in manufacturing: *cancer of the rectum*". The report details the Panel's understanding and investigation of the subject and describes the background information and evidence from which were derived a finding and recommendation concerning the adjudication of workers' compensation claims for cancer of the rectum from workers who have had occupational exposure to metal working fluids. This report follows two previous reports on the health effects of occupational exposure to machining fluids; one on cancer of the esophagus (received in September, 1996) and the other on cancer of the larynx (received in July, 1995).

In accordance with subsection 95(12) of the *Workers' Compensation Act*, the WCB is publishing this notice setting forth the nature of the finding by the Panel and hereby requests that written comments, briefs and submissions concerning them be filed with the WCB within 118 days of this notice (April 17, 1998).

Included in this notice are the following:

- 1) the title page of the report, and
- 2) the Panel's finding and recommendation.

Copies of the report are available at the following internet address: "www.ccohs.ca/odp".

All comments briefs and submissions related to the report should be sent to Ms. Linda Angove, Secretary of the Board, Workers' Compensation Board, 200 Front Street West, 17th floor, Toronto ON M5V 3J1.

All submissions will become public documents and will be maintained by the WCB library.

Upon the expiry of the 118 day period herein, the WCB, pursuant to subsection 95(13), may accept the findings of the Panel with or without amendments or may reject the findings.

Notice of the WCB's acceptance or rejection, with reasons therefor, will be published in THE ONTARIO GAZETTE in accordance with subsection 95(15) of the *Workers' Compensation Act*.

## Workers' Compensation Board

**Report to the Workers' Compensation Board on the health effects of occupational exposure to fluids used for machining and lubricating metal in manufacturing: *Cancer of the rectum*.**

October, 1997

Occupational Disease Panel  
ODP Report No. 20  
Toronto, Ontario

## The Panel's findings and recommendations concerning cancer of the rectum

In summary, four cohorts of exposed workers experienced statistically significant increases in the rate of rectal cancer, of the nine cohorts under study by the Panel. The GM data are particularly persuasive because of the large cohort and detailed exposure assessment.

Concerns about confounding by lifestyle are diminished by the results of the nested case-control study conducted by Eisen et al. That research compares the rates of workers from the same pool who would mostly have similar lifestyles. The results of that comparison of like individuals show a clear increase of rectal cancer with increasing exposure to straight oils. Also persuasive is the only study that controlled for diet, physical activity and family history [20].

By contrast, the likely association between MWF exposure and other work-related exposures are not controlled by making only these internal comparisons. In particular it seems that exposure to MWFs is compounded by experience in grinding; a model that adjusts for grinding has a slightly lower risk estimate for MWFs than a model that does not adjust for grinding. The GM dose-response analyses which, again, were based on a thorough exposure assessment, found a clear trend for straight oils only. There is evidence that an association is biologically plausible because of the presence of carcinogenic nitrosamines and PAHs in metalworking fluids. Comparing metalworking fluid exposure with asbestos exposure suggests an analogous biological process.

These data, evaluated as a whole, lead the Panel to conclude that there is evidence, although not entirely consistent evidence, of an association between rectal cancer and occupational exposure to metalworking fluids.

The Panel considered making findings about specific fluid types, in previous investigations and in the current one, but declined to do so for two reasons. First, all the expert consultants, studies, reports and stakeholders agree that it would not be possible to establish the extent or type of MWF exposure on an individual basis. Second, other than the information in the GM studies, there is no evidence to indicate what type or types of metalworking fluids led to the statistically significant increases in rectal cancer in the other studies; indeed it is highly likely that most types of fluids were used to varying degrees by those subjects. For these reasons, it would be unreasonable to make either findings or recommendations about specific metalworking fluid types.

For these reasons, the Panel makes the following finding:

- ***There is a probable connection between occupational exposure to petroleum based metalworking fluids and primary cancer of the rectum.***

Because of the lack of complete consistency in the findings indicating an association between rectal cancer and metalworking fluid exposure, the Panel does not recommend that primary cancer of the rectum and occupational exposure to metalworking fluids be added to Schedule 3 or 4 of the *Act*, which would invoke legal presumptions that rectal cancer among metalworking fluid exposed workers is due to their occupation. There is, however, sufficient evidence that establishes a probable connection to warrant careful consideration of such claims on an individual basis. Accordingly, the Panel makes the following recommendation:

- ***Because a probable connection has been established, guidelines should be developed to assist adjudicators in assessing the merits of claims for primary rectal cancer from workers who have been occupationally exposed to petroleum based metalworking fluids.***



## Workers' Compensation Board Commission des accidents du travail

IN THE MATTER OF Section 95 of the  
*Workers' Compensation Act*  
R.S.O. 1990, c.W.11, as amended;

AND IN THE MATTER OF a Report to the  
Workers' Compensation Board on ODP revisions  
to Schedule 3, Phase 2:

silicosis and silico-tuberculosis, tuberculosis,  
non-ionizing radiation and eye injury, benzene and leukaemia.

### REQUEST FOR SUBMISSIONS

Section 95 of the *Workers' Compensation Act* provides for the creation of an Occupational Disease Panel (the ODP, or hereinafter referred to as "the Panel"). It is the function of the Panel to:

- (a) investigate possible occupational diseases;
- (b) make findings as to whether a probable connection exists between a disease and occupational process, trade or occupation in Ontario;
- (c) create, develop and revise criteria for the evaluation of claims respecting occupational diseases; and
- (d) to advise on eligibility rules regarding compensation for claims respecting occupational diseases.

The Royal Commission on Matters of Health and Safety Arising from the Use of Asbestos in Ontario completed, and tabled, a comprehensive three volume report in 1984 which included a number of recommendations affecting workers' compensation programmes. In light of that report, on March 5, 1987, the Workers' Compensation Board wrote to the ODP requesting that it address several recommendations made by the Royal Commission. One of these recommendations was:

12.8 The Workers' Compensation Board should review Schedule 3 of the Workers' Compensation Act to ensure that it incorporates those disease [sic] whose associated industrial process is necessary and sufficient to cause this disease.

The Board asked the ODP (then the Industrial Disease Standards Panel, or IDSP) the following questions:

Following a review of Schedule 3 of the Act, is it the Panel's view that this schedule incorporates all of those diseases whose associated industrial processes are necessary and sufficient to cause those diseases? If not, what other industrial diseases or associated industrial processes should be incorporated into this schedule, or into Schedule 4?

In November 1994, the Panel provided the Workers' Compensation Board (WCB) with a report on "IDSP Revisions to Schedule 3: Phase One", which was published in THE ONTARIO GAZETTE on Saturday, December 17, 1994.

Now, in November 1997, the Panel has provided the WCB with a second report (66 pages and an appendix) entitled "Report to the Workers' Compensation Board on ODP revisions to Schedule 3, Phase 2: silicosis, and silico-tuberculosis, tuberculosis, non-ionizing radiation and eye injury, benzene and leukemia". The report details the Panel's understanding of the five diseases investigated, and describes the background information and evidence from which were derived five findings and recommendations concerning the adjudication of workers' compensation claims for silicosis and silico-tuberculosis, tuberculosis, non-ionizing radiation induced eye injury, and leukemia after benzene exposure.

In accordance with subsection 95(12) of the *Workers' Compensation Act*, the WCB is publishing this notice setting forth the nature of the finding by the Panel and hereby requests that written comments, briefs and submissions concerning them be filed with the WCB within 118 days of this notice (April 17, 1998).

Included in this notice are the following:

- 1) the title page of the report, and
- 2) the Panel's findings and recommendations.

Copies of the report are available at the following internet address: "www.ccohs.ca/odp".

All comments briefs and submissions related to the report should be sent to Ms. Linda Angove, Secretary of the Board, Workers' Compensation Board, 200 Front Street West, 17th floor, Toronto ON M5V 3J1.

All submissions will become public documents and will be maintained by the WCB library.

Upon the expiry of the 118 day period herein, the WCB, pursuant to subsection 95(13), may accept the findings of the Panel with or without amendments or may reject the findings.

Notice of the WCB's acceptance or rejection, with reasons therefor, will be published in THE ONTARIO GAZETTE in accordance with subsection 95(15) of the *Workers' Compensation Act*.

## Workers' Compensation Board

**Report to the Workers' Compensation Board on ODP revisions to  
Schedule 3, Phase 2: silicosis and silico-tuberculosis, tuberculosis,  
non-ionizing radiation and eye injury, benzene and leukaemia**

November, 1997

Occupational Disease Panel  
ODP Report No. 14A  
Toronto, Ontario

### SUMMARY OF THE PANEL'S FINDINGS

#### Silicosis and silico-tuberculosis

The nature of *silicosis* and the sources of exposure make the disease peculiar to work processes using crystalline silica or generating silica dust. This peculiarity presents a very strong or definite association between silicosis and specific occupations or industries. The Panel finds that because the disease is almost always caused by a specific agent in particular employments, there is a conclusive connection between silicosis and work-related exposure to silica.

*Silico-tuberculosis* is a disease linked only to silicosis and therefore associated with workplace exposure to silica dust. The Panel feels this disease should be a listed disease in Schedule 3. Panel member, John Macnamara did not agree with the need for a separate listing.

#### Tuberculosis

The current schedule recognition of *tuberculosis* as characteristic of some employments is public notice of a probable connection between work and the disease. Adjudication experience shows that the disease is also characteristic of other additional specific employments. The Panel finds that the probable connection between tuberculosis and work is well established and that there is sufficient evidence to recognize a probable connection in other employments. These findings call for a revision of the Schedule 3 entry for tuberculosis.

#### Non-ionizing radiation and eye Injury

There are good reasons to expand the process description to include other work processes associated with photo and thermal eye injuries. *Non-ionizing radiation* sources in industrial settings are largely controlled by safety measures; however, toxic exposures can and do occur. The Panel finds there is sufficient evidence to revise the entry for non-ionizing radiation but chooses not to include cataract or gas discharge/arc lamps at this time.

The workplace eye injuries associated with excess ocular exposure to Ultra-Violet, Infra-Red and Visible Light are *photo retinitis*, *photo keratitis* and *photo conjunctivitis*. There is a probable connection between certain work processes, specifically arc and laser welding, and

these diseases. Other injuries (e.g., cataract) and those injuries caused by related work processes using NIR (e.g., gas discharge/arc lamps, microwaves and radio waves) should be considered on a case-by-case basis. The effects of such processes are still very controversial and should be left for future investigations.

#### Benzene and leukaemia

The weight of evidence establishes a probable connection between occupational exposure to benzene and leukaemia and pre-leukaemia. Benzene and its metabolites are toxic to almost all cells of the bone marrow. A multiplicity of diseases is associated with benzene exposure.

Case reports, epidemiology, chromosome studies, metabolic studies and experimental evidence all support the conclusion that benzene exposures cause pancytopenia, aplastic anaemia, myelodysplastic syndrome and all variants of acute myelogenous leukaemia. This association is strong and constitutes a probable connection.

Considerable evidence also exists to link benzene to chronic myelogenous leukaemia, chronic lymphatic leukaemia, multiple myeloma and myelofibrosis and myeloid metaplasia. A number of studies also report an association with acute lymphoblastic leukaemia, non-Hodgkin's lymphoma, Hodgkin's disease and thrombocytopenia.

A probable connection between benzene and leukaemic and pre-leukaemic cancer has been recognized in two other jurisdictions. Moreover, many jurisdictions will compensate the effects of benzene poisoning, which would include the effects of various compounds and homologues of benzene, and its sequelae.

#### THE PANEL'S RECOMMENDATIONS

1. The Panel recommends that the entry for *Silicosis* be moved from Schedule 3 and placed in **Schedule 4**, to read as follows:

<b>Silicosis</b>	<b>Any process involving exposure to crystalline silica</b>
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2. The Panel, having also previously reported on the probable connection between respiratory complications and non-malignant respiratory diseases, now recommends that *Silico-tuberculosis* be entered into **Schedule 3** as follows:

<b>Silico-tuberculosis</b>	<b>Any process involving exposure to crystalline silica and to the <i>tubercle bacillus</i></b>
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3. The Panel recommends that the Schedule 3 entry for *Tuberculosis* be changed to read as follows:

<b>Tuberculosis</b>	<b>Any employment in healthcare and healthcare services, including medical or related laboratories, or any occupation with a known risk of exposure to tuberculosis or to the <i>tubercle bacillus</i></b>
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4. The Panel recommends that the Schedule 3 entry for diseases caused by *Non-ionizing radiation* be changed to read as follows:

<b>Photo keratoconjunctivitis and photo retinitis</b>	<b>Any process involving prolonged or intense Ultra-Violet or Infra-Red exposure, including gas or arc welding or use of lasers</b>
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5. The Panel recommends that the connection between benzene exposures and leukaemic and pre-leukaemic diseases be entered into Schedule 3 as follows:

<b>Leukaemia and pre-leukaemia</b>	<b>Prolonged or intense exposure to benzene during regular work, which includes the use, production, generation or transport of benzene</b>
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(6124) 51

## Applications to Provincial Parliament — Private Bills Demandes au Parlement provincial — Projets de loi d'intérêt privé

### PUBLIC NOTICE

The rules of procedure and the fees and costs related to applications for Private Bills are set out in the Standing Orders of the Legislative Assembly. Copies of the Standing Orders may be obtained from:

Committees Branch  
Room 1405, Whitney Block, Queen's Park  
Toronto, Ontario M7A 1A2

Telephone: 416/325-3500 (Collect calls will be accepted.)

Applicants should note that consideration of applications for Private Bills that are received after the first day of September in any calendar year may be postponed until the first regular Session in the next following calendar year.

CLAUDE L. DESROSIERS,  
Clerk of the Legislative Assembly.

(8699) T.F.N.

## Corporation Notices Avis relatifs aux compagnies

### INTERNATIONAL SOCIETY OF SPIRITUAL UNDERSTANDING Ontario Corporation Number 1023197

NOTICE IS HEREBY GIVEN that the location of the head office of International Society Of Spiritual Understanding was changed from 110-1101 Steeles Ave. West, North York, Ontario M2R 2S9 to 1205-25 Maitland St., Toronto, Ontario M4Y 2W1 by a Special Resolution which was confirmed by the members of the Corporation on the 22nd day of November 1997.

Dated this 24th day of November, 1997.

(9501) 51

ROBERT FONDAN,  
Treasurer/Director.



**INTERNATIONAL SOCIETY OF  
SPIRITUAL UNDERSTANDING  
Ontario Corporation Number 1023197**

NOTICE IS HEREBY GIVEN that the number of directors of International Society Of Spiritual Understanding was increased from four to five by a Special Resolution which was confirmed by the members of the Corporation on the 4th day of November 1997.

Dated this 24th day of November, 1997.

(9502) 51

ROBERT FONDAN,  
Treasurer/Director.

**CANADA SEVASHRAM SANGHA (TORONTO)**

NOTICE IS HEREBY GIVEN that Canada Sevashram Sangha (Toronto) intends to surrender its Charter pursuant to s. 319 of *The Corporations Act*.

Dated this 10th day of December, 1997.

(9503) 51

LAKHRAM BOODRAM,  
Secretary.

**THE BRIDLEHEATH CHARITABLE FOUNDATION**

NOTICE IS HEREBY GIVEN that the members of The Bridleheath Charitable Foundation intends to surrender its Charter pursuant to *The Corporations Act*.

Dated at Toronto, this 5th day of December, 1997.

(9504) 51

GEORGE CORN,  
Director.

**P&S WILDERNESS BOOKINGS LTD.  
Ontario Corporation Number 000967071**

NOTICE IS HEREBY GIVEN that P&S Wilderness Bookings Ltd. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Thunder Bay, this 17th day of November, 1997.

(9505) 51

S.R. SEELEY,  
Secretary-Treasurer.

**785706 ONTARIO INC.**

NOTICE IS HEREBY GIVEN that 785706 Ontario Inc. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Rockland, this 18th day of July, 1997.

(9506) 51

RENE THAUVETTE,  
President.

**L. H. WHITTON COMPANY LIMITED**

NOTICE IS HEREBY GIVEN that L. H. Whitton Company Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Etobicoke, this 2nd day of December, 1997.

(9507) 51

DOROTHY GENGE,  
Executrix of the Estate of -  
Lillian Whitton.

**HELLENIC CANADIAN BOARD OF TRADE**

NOTICE IS HEREBY GIVEN that number of Directors of the Hellenic Canadian Board of Trade was decreased from eleven (11) to nine (9) by a Special Resolution which was confirmed by the members of the Corporation on the 13th day of November, 1997.

Dated at Toronto, this 21st day of November, 1997.

(9508) 51

GEORGE KOSMOPOULOS,  
Secretary.

**MEADOWOOD HOMES LTD.**

NOTICE IS HEREBY GIVEN that Meadowood Homes Ltd. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at the Town of Pelham, this 18th day of November, 1997.

(9509) 51

JILL C. ANTHONY,  
Barrister and Solicitor.

**VEXELLAND LIMITED**

NOTICE IS HEREBY GIVEN that Vexelland Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated at St. Catharines, this 25th day of November, 1997.

(9510) 51

ELSIE M. EPP,  
President.

**YONGE STREET BUSINESS & RESIDENT  
ASSOCIATION INC.**

NOTICE IS HEREBY GIVEN that the number of Directors of Yonge Street Business & Resident Association Inc. was increased from 4 to 18 by a Special Resolution which was passed and confirmed by the members of the Corporation on the 15th day of October, 1997.

Dated this 15th day of October, 1997.

(9511) 51

DONALD B. PATTERSON,  
Secretary.

**C & S QUALITY CONTROL SYSTEMS CORPORATION**

NOTICE IS HEREBY GIVEN that C & S Quality Control Systems Corporation intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 5th day of December, 1997.

(9512) 51

GARY CIAMMAICHELLA,  
Secretary.

**ST. JOHN'S-KILMARNOCK SCHOOL FOUNDATION**

NOTICE IS HEREBY GIVEN that number of Directors of St. John's-Kilmarnock School Foundation was increased from twelve (12) to fifteen (15) by a Special Resolution which was confirmed by the members of the Corporation on the 24th day of June, 1997.

Dated this 1st day of December, 1997.

(9513) 51

ROBERT L. WARREN,  
Secretary.

**TRIPP CONSTRUCTION LIMITED**

TAKE NOTICE that on the 8th day of December, 1997 the shareholder of Tripp Construction Limited passed a resolution requiring the said Corporation to be wound up voluntarily under the provisions of the *Business Corporations Act* (Ontario) and appointing Marshall Rae Tripp as Liquidator.

Dated this 10th day of December, 1997.

(9514) 51

TRIPP CONSTRUCTION LIMITED,  
by its solicitors,  
Gardiner, Roberts  
Suite 3100, Scotia Plaza,  
40 King Street West,  
Toronto, Ontario,  
M5H 3Y2.  
Per: Robert C. Rossow



**TRI-LOC AGGREGATES LIMITED**

TAKE NOTICE that on the 8th day of December, 1997 the shareholder of Tri-Loc Aggregates Limited passed a resolution requiring the said Corporation to be wound up voluntarily under the provisions of the *Business Corporations Act* (Ontario) and appointing Marshall Rae Tripp as Liquidator.

Dated this 10th day of December, 1997.

TRI-LOC AGGREGATES LIMITED,  
by its solicitors,  
Gardiner, Roberts  
Suite 3100, Scotia Plaza,  
40 King Street West,  
Toronto, Ontario,  
M5H 3Y2.  
Per: Robert C. Rossow

(9515) 51

**1218749 ONTARIO LIMITED**

NOTICE IS HEREBY GIVEN that 1218749 Ontario Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Niagara Falls, this 4th day of December, 1997.

(9516) 51 N.A. MCKAY,  
President.

**EXPO ACTION INVESTMENTS LIMITED**

NOTICE IS HEREBY GIVEN that Expo Action Investments Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Toronto, this 9th day of December, 1997.

(9517) 51 ROY HAMILTON,  
President.

**1265142 ONTARIO LIMITED**

TAKE NOTICE that the Final General Meeting of the Members of 1265142 Ontario Limited (in voluntary liquidation) will be held at Toronto, Ontario on the 8th day of December, 1997, at 11 o'clock a.m. for the purpose of receiving from the Liquidator his accounts of the winding-up showing how it has been conducted and how the property of the Corporation has been disposed of and giving the explanation of it.

Dated this 8th day of December, 1997.

(9518) 51 FOGLER, RUBINOFF,  
Solicitors,  
Suite 4400, P.O. Box 95,  
Royal Trust Tower,  
Toronto-Dominion Centre,  
Toronto, Ontario,  
M5H 3T1.  
Per: I. William Berger

**1039897 ONTARIO INC.**

NOTICE IS HEREBY GIVEN that 1039897 Ontario Inc. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at North Bay, this 19th day of November, 1997.

(9519) 51 LUCENTI, RIVARD, ORLANDO & ZYTARUK,  
Barristers & Solicitors.

**1256692 ONTARIO INC.**

NOTICE IS HEREBY GIVEN that 1256692 Ontario Inc. intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 4th day of December, 1997.

(9520) 51 KIN PING TSE,  
President.

## Notice to Creditors Avis aux créanciers

**NOTICE TO CREDITORS AND OTHERS**

All claims against the Estate of Gino Di Berardino, late of the City of North York, who died on April 21, 1997, must be filed with the undersigned Estate Trustees on or before January 30, 1998, thereafter the Estate will be distributed having regard to claims then filed. The undersigned will not be liable to any person of whose claim they shall not then have notice.

Dated at City of York, this 24th day of November, 1997.

(9521) 51-52-1 ANTONIO DI BERARDINO AND  
MARIA DI BERARDINO,  
Estate Trustees With a Will,  
by their solicitor  
VICTOR E. RUDINSKAS,  
27 John Street, Second Floor,  
Weston, Ontario  
M9N 1J4.

## Partnership Dissolution/Changes Dissolution de sociétés/La modifications

**OPTIMAL STRATEGIC DECISIONS INC.**

NOTICE IS HEREBY GIVEN that Optimal Strategic Decisions Inc., has withdrawn from the partnership of Quantum Solutions effective April 30, 1997. Optimal Strategic Decisions Inc. shall in no way be liable for the liabilities or obligations of Quantum Solutions Inc. after the effective date.

Dated this 30th day of July, 1997.

(9522) 51 MICHAEL POLLOCK,  
President.

## THE PINES MOTEL AND KOZY BARN DINING ROOM RESTAURANT AKA MOTEL AND KOZY BARN

NOTICE IS HEREBY GIVEN that the partnership between Brian Milam and Anna-Rosa Ronner, carrying on business as The Pines Motel and Kozy Barn Dining Room Restaurant, aka Pines Motel and Kozy Barn has dissolved pursuant to *The Partnerships Act* effective October 1, 1995.

Dated this 19th day of November, 1997.

(9523) 51 BRIAN MILAM

## Miscellaneous Notices Avis divers

### PRIMUM INSURANCE COMPANY/PRIMUM COMPAGNIE D'ASSURANCE

NOTICE IS HEREBY GIVEN that Primum Insurance Company/Primum compagnie d'assurance will make an application to the Commissioner of Insurance for Ontario pursuant to the *Insurance Act* authorizing Primum Insurance Company/Primum compagnie

d'assurance to carry on within Ontario the business of automobile insurance, liability insurance and property insurance.

Dated at Toronto, this 4th day of December, 1997.

Robert W. McDowell,  
FASKEN CAMPBELL GODFREY,  
Barristers and Solicitors,  
Box 20, Suite 4200,  
Toronto Dominion Bank Tower,  
Toronto-Dominion Centre,  
Toronto, Ontario  
M5K 1N6.

(9500) 50-52

## Sales of Lands for Tax Arrears by Public Tender Ventes de terrains par appel d'offres pour arriéré d'impôt

MUNICIPAL TAX SALES ACT  
R.S.O. 1990, c. M.60, s. 9(1) R.R.O. 1990, Reg. 824

### THE CORPORATION OF THE TOWN OF KEARNEY

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3:00 p.m. local time on January 12, 1998, at The Municipal Office.

The tenders will then be opened in public on the same day at 3:30 p.m. at the Municipal Office.

Description of Land(s)	Minimum Tender Amount
Parcel 17,141 Parry Sound South Section, being Lot 34, Plan M-361, Together with an easement over Blocks A, B and C, Plan M-361, in the Township of Bethune, now Town of Kearney, District of Parry Sound .....	\$10,242.02
Parcel 13,991 Parry Sound South Section, being Part of Lot 16, Concession 4, in the Township of Proudfoot, now Town of Kearney, District of Parry Sound, designated as Part 1, Plan PSR-1285, Location CL750.....	\$2,224.97
Part of Parcel 7105 Parry Sound South Section, being Part of Lot 11, Concession 1, in the Township of Proudfoot, now Town of Kearney, District of Parry Sound, designated as Part 2, Plan 42R-14460. ....	\$5,039.98
Part of Parcel 7105 Parry Sound South Section, being Part of Lot 12, Concession 2, in the Township of Proudfoot, now Town of Kearney, District of Parry Sound, designated as Part 1, Plan 42R-14460. ....	\$5,885.22
Parcel 24,501 Parry Sound South Section, being Lot 106, Plan M-24, in the Township of Perry, now Town of Kearney, District of Parry Sound .....	\$3,757.90
Parcel 14,807 Parry Sound South Section, being Lot 14, Plan M-312, in the Township of Bethune, now Town of Kearney, District of Parry Sound .....	\$7,721.71

### Description of Land(s)

Minimum  
Tender Amount

Parcel 9554 Parry Sound South  
Section, being Lot 3, Plan M-51,  
in the Township of Proudfoot, now  
Town of Kearney, District of Parry Sound ..... \$6,960.17

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust corporation or Province of Ontario Savings Office payable to the municipality or board and representing at least 20 per cent of the tender amount.

The Municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act* and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender, contact:

KEVEN ALLEN,  
Deputy Treasurer,  
The Corporation of the  
Town of Kearney,  
8 Main Street,  
P.O. Box 38  
Kearney, Ontario  
POA 1M0

(9524) 51

### MUNICIPAL TAX SALES ACT

### THE CORPORATION OF THE TOWNSHIP OF COLEMAN

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3:00 p.m. local time on January 16, 1998.

The tenders will then be opened in public on the same day at 3:30 p.m.

Description of Land(s)	Minimum Tender Amount
Parcel 2469NND North West Part of Lot 7, Concession 6, Township of Coleman, Municipality of Coleman .....	\$1,162.14

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office payable to the municipality (or board) and representing at least 20 per cent of the tender amount.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act*, being chapter M.60 of the Revised Statutes of Ontario 1990 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender, contact:

CLERK TREASURER,  
The Corporation of the  
Township of Coleman,  
Box 40,  
Cobalt, Ontario  
POJ 1C0

(9525) 51

## MUNICIPAL TAX SALES ACT

## THE CORPORATION OF THE CITY OF CORNWALL

TAKE NOTICE that tenders are invited for the purchase of the land(s) described below and will be received until 3:00 p.m. local time on Tuesday, January 13, 1998 at Clerks Department, 360 Pitt Street.

The tenders will then be opened in public on the same day at Municipal Council Chambers.

Description of Land(s)	Minimum Tender Amount
Part of the east half of Lot B, Concession 1, designated as Parts 1, 2, and 3 on Reference Plan 52R-2097 in the City of Cornwall, County of Stormont and municipally described as 3000 Marleau Avenue .....	\$1,038,645.33
A 52,000 sq. ft. manufacturing facility, formerly a dimensional stone and tile processing facility.	

Tenders must be submitted in the prescribed form and must be accompanied by a deposit in the form of a money order or of a bank draft or cheque certified by a bank, trust company or Province of Ontario Savings Office payable to the municipality (or board) and representing at least 20 per cent of the tender amount.

The municipality makes no representation regarding the title to or any other matters relating to the land to be sold. Responsibility for ascertaining these matters rests with the potential purchasers.

This sale is governed by the *Municipal Tax Sales Act*, being chapter M.60 of the Revised Statutes of Ontario 1990 and the *Municipal Tax Sales Rules* made under that Act. The successful purchaser will be required to pay the amount tendered plus accumulated taxes and the relevant land transfer tax.

For further information regarding this sale and a copy of the prescribed form of tender contact:

REGISTERED PROPERTIES CO-ORDINATOR,  
The Corporation of the  
City of Cornwall,  
360 Pitt Street,  
Cornwall, Ontario  
K6H 5T9

(9526) 51





# Publications under the Regulations Act Publications en vertu de la Loi sur les règlements

1997—12—20

## ONTARIO REGULATION 432/97 made under the HIGHWAY TRAFFIC ACT

Made: November 25, 1997  
Filed: December 2, 1997

Amending Reg. 619 of R.R.O. 1990  
(Speed Limits)

**Note:** Since January 1, 1997, Regulation 619 has been amended by Ontario Regulations 44/97, 115/97, 140/97, 141/97, 194/97, 208/97, 209/97, 327/97, 356/97 and 366/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. (1) Paragraph 6 of Part 3 of Schedule 11 of Regulation 619 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

Wellington—Twps. of Howick and Minto  
Bruce—Twp. of Carrick

6. That part of the King's Highway known as No. 9 in the townships of Howick and Minto in the County of Wellington lying between a point situate 172 metres measured westerly from its intersection with the centre line of the roadway known as West Heritage Road (Wellington Road 1) and a point situate 494 metres measured easterly from the centre line of the roadway known as Vincent Street in the Township of Carrick in the County of Bruce.

**(2) Part 5 of Schedule 11 to the Regulation is amended by adding the following paragraph:**

Wellington—Twps. of Howick and Minto

8. That part of the King's Highway known as No. 9 in the townships of Howick and Minto in the County of Wellington lying between a point situate 172 metres measured westerly from its intersection with the centre line of the roadway known as West Heritage Road (Wellington Road 1) and extending easterly for a distance of 220 metres.

**2. (1) Paragraph 24 of Part 2 of Schedule 21 to the Regulation is revoked and the following substituted:**

District of Kenora—Town of Jaffray Melick  
Twp. of Langton

24. That part of the King's Highway known as No. 17 in the Territorial District of Kenora lying between a point situate 230 metres measured westerly from its intersection with the King's Highway known as No. 647 in the Township of Langton and a point situate at the east limits of the Town of Jaffray Melick.

**(2) Paragraph 21 of Part 5 of Schedule 21 to the Regulation is revoked.**

**3. Schedule 172 to the Regulation is revoked.**

**4. Schedule 174 to the Regulation is revoked.**

**5. Schedule 181 to the Regulation is revoked.**

**6. (1) Paragraph 1 of Part 3 of Schedule 236 to the Regulation is revoked and the following substituted:**

District of Kenora—Town of Keewatin

1. That part of the King's Highway known as No. 596 in the Town of Keewatin in the Territorial District of Kenora beginning at a point situate at its intersection with the King's Highway known as No. 17A and extending northerly to a point situate at the north limits of the Town of Keewatin.

**(2) Paragraph 1 of Part 6 of Schedule 236 to the Regulation is revoked.**

**7. (1) Part 5 of Schedule 256 to the Regulation is amended by adding the following paragraph:**

District of Algoma—Twp. of White River

1. That part of the King's Highway known as No. 631 in the Territorial District of Algoma in the incorporated Township of White River beginning at a point situate 750 metres measured easterly from its intersection with the King's Highway known as No. 17 and extending easterly for a distance of 600 metres.

**(2) Paragraph 2 of Part 6 of Schedule 256 to the Regulation is revoked and the following substituted:**

District of Algoma—Twp. of White River

2. That part of the King's Highway known as No. 631 in the Territorial District of Algoma in the incorporated Township of White River beginning at a point situate at its intersection with the King's Highway known as No. 17 and extending easterly for a distance of 750 metres.

TONY P. CLEMENT  
Minister of Transportation

Dated on November 25, 1997.

51/97

**ONTARIO REGULATION 433/97**made under the  
**HIGHWAY TRAFFIC ACT**

Made: November 25, 1997

Filed: December 2, 1997

Amending Reg. 630 of R.R.O. 1990  
(Vehicles on Controlled-Access Highways)

Note: Since January 1997, Regulation 630 has been amended by Ontario Regulation 102/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Paragraph 1 of the Schedule to Regulation 630 of Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

1. All of the King's Highways known as No. 401, 402, 403, 404, 405, 407, 409, 410, 416, 417 and 427.

**2. The Schedule to the Regulation is amended by adding the following paragraph:**

33. That part of the King's Highway known as No. 400 in the City of North York in the Municipality of Metropolitan Toronto lying between a point situate at its intersection with the southerly limit of the structure over the roadway known as Maple Leaf Drive and a point situate at its intersection with the southerly limit of the roadway known as Muskoka Road 5 in the Township of Georgian Bay in the District Municipality of Muskoka.

TONY P. CLEMENT  
*Minister of Transportation*

Dated on November 25, 1997.

51/97

**ONTARIO REGULATION 434/97**made under the  
**HIGHWAY TRAFFIC ACT**

Made: December 1, 1997

Filed: December 2, 1997

Amending Reg. 619 of R.R.O. 1990  
(Speed Limits)

Note: Since January 1, 1997, Regulation 619 has been amended by Ontario Regulations 44/97, 115/97, 140/97, 141/97, 194/97, 208/97, 209/97, 327/97, 356/97, 366/97 and 432/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. (1) Paragraph 1 of Part 3 of Schedule 3 of Regulation 619 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

Middlesex—Township of London

1. That part of the King's Highway known as No. 4 in the Township of London in the County of Middlesex beginning at a point situate 460 metres measured southerly from its intersection with the southerly limit of the road allowance known as Medway Road (County Road 28) and extending southerly for a distance of 250 metres.

**(2) Paragraph 1 of Part 5 of Schedule 3 to the Regulation is revoked and the following substituted:**

Middlesex—Township of London

1. That part of the King's Highway known as No. 4 in the Township of London in the County of Middlesex lying between a point situate 460 metres measured southerly from its intersection with the southerly limit of the road allowance known as Medway Road (County Road 28) and a point situate 610 metres measured northerly from its intersection with the northerly limit of the said allowance.

**2. (1) Paragraph 25 of Part 2 of Schedule 13 to the Regulation is revoked and the following substituted:**

District of Parry Sound—Township of Strong  
Village of South River

25. That part of the King's Highway known as No. 11 in the Territorial District of Parry Sound lying between a point situate 140 metres measured northerly from its intersection with the centre line of the roadway known as Basso Road in the Township of Strong and a point situate 910 metres measured southerly from its intersection with the centre line of the roadway known as Toronto Avenue in the Village of South River.

**(2) Paragraph 33 of Part 2 of Schedule 13 to the Regulation is revoked and the following substituted:**

District of Parry Sound—Twps. of Perry and Strong

33. That part of the King's Highway known as No. 11 in the Territorial District of Parry Sound lying between a point situate at its intersection with the northerly limit of the northerly junction of the King's Highway known as No. 518 in the Township of Perry and a point situate 620 metres measured southerly from its intersection with the centre line of the roadway known as Albert Street in the Township of Strong.

**(3) Part 3 of Schedule 13 to the Regulation is amended by adding the following paragraph:**

District of Parry Sound—Village of Sundridge  
Twp. of Strong

19. That part of the King's Highway known as No. 11 in the Territorial District of Parry Sound lying between a point situate 620 metres measured northerly from its intersection with the centre line of the roadway known as Paget Street in the Village of Sundridge and a point situate 140 metres measured northerly from its intersection with the centre line of the roadway known as Basso Road in the Township of Strong.

**(4) Paragraph 9 of Part 5 of Schedule 13 to the Regulation is revoked and the following substituted:**

District of Parry Sound—Twp. of Strong  
Village of Sundridge

9. That part of the King's Highway known as No. 11 in the Territorial District of Parry Sound lying between a point situate 620 metres measured southerly from its intersection with the centre line of the roadway known as Albert Street in the Township of Strong and a point situate 620 metres measured northerly from its intersection with the centre line of the roadway known as Paget Street in the Village of Sundridge.

**3. (1) Paragraph 1 of Part 4 of Schedule 40 to the Regulation is revoked.**



(2) Part 5 of Schedule 40 to the Regulation is amended by adding the following paragraph:

Haliburton—Twps. of Anson Hindon and Minden and Stanhope

3. That part of the King's Highway known as No. 35 in the County of Haliburton lying between a point situate 500 metres measured southerly from its intersection with the centre line of the King's Highway known as No. 118 in the Township of Anson Hindon and Minden and a point situate 1200 metres measured northerly from its intersection with the centre line of the King's Highway known as No. 118 in the Township of Stanhope.

TONY P. CLEMENT  
Minister of Transportation

Dated on December 1, 1997.

51/97

**ONTARIO REGULATION 435/97**  
made under the  
**PUBLIC SERVICE ACT**

Made: November 7, 1997  
Approved: November 19, 1997  
Filed: December 3, 1997

**RULES OF CONDUCT FOR PUBLIC SERVANTS**

INTERPRETATION

1. In this Regulation,

"confidential information" means information that is not available to the public and that, if disclosed, could result in loss or harm to the Crown or could give the person to whom it is disclosed an advantage;

"gift" includes a benefit of any kind;

"independent commissioner" means the independent commissioner designated under the "Conflict of Interest and Post-Service Directive" made by the Management Board of Cabinet and dated June 25, 1997;

"integrity commissioner" means the integrity commissioner designated under the "Conflict of Interest and Post-Service Directive" made by the Management Board of Cabinet and dated June 25, 1997.

2. For the purposes of this Regulation, the following person is the designated official for a public servant:

1. For the Secretary of Cabinet, the Premier.
2. For a public servant employed in the Premier's Office or in a minister's office, the integrity commissioner.
3. For a deputy minister (other than the Secretary of Cabinet) or for a public servant employed in Cabinet Office, the Secretary of Cabinet.
4. For a public servant employed in the Privatization Secretariat, the integrity commissioner.

5. For a public servant employed in a ministry (other than one to whom paragraph 3 or 4 applies), the deputy minister of the ministry.

3. For the purposes of this Regulation, the following person is the designated third party for a public servant:

1. For deputy ministers, the independent commissioner.
2. For senior public servants who routinely work on privatization issues, the independent commissioner.
3. For other public servants, the person who is their designated official.

PROHIBITED CONDUCT

4. (1) A public servant shall not use or attempt to use his or her employment in the service of the Crown to directly or indirectly benefit himself or herself or his or her spouse or children.

(2) A public servant shall not allow the prospect of his or her future employment by a person or entity to detrimentally affect the performance of his or her duties to the Crown.

5. (1) A public servant shall not accept a gift from any of the following persons or entities if a reasonable person might conclude that the gift could influence the public servant when performing his or her duties to the Crown:

1. A person, group or entity that has dealings with the Crown.
2. A person, group or entity to whom the public servant provides services in the course of his or her duties to the Crown.
3. A person, group or entity that seeks to do business with the Crown.

(2) Subsection (1) shall not operate to prevent a public servant from accepting a gift of nominal value given as an expression of courtesy or hospitality if doing so is reasonable in the circumstances.

(3) A public servant who receives a gift in the circumstances described in subsection (1) shall notify his or her designated official.

6. (1) A public servant shall not disclose confidential information obtained during the course of his or her employment in the service of the Crown to a person or entity unless the public servant is authorized to do so by law or by the Crown.

(2) A public servant shall not use confidential information in a business or undertaking outside his or her work for the Crown.

(3) A public servant shall not accept a gift directly or indirectly in exchange for disclosing confidential information.

7. (1) When performing his or her duties to the Crown, a public servant shall not give preferential treatment to any person or entity, including a person or entity in which the public servant or a member of his or her family or a friend has an interest.

(2) When performing his or her duties to the Crown, a public servant shall endeavour to avoid creating the appearance that preferential treatment is being given to a person or entity that could benefit from it.

(3) A public servant shall not offer assistance to a person or entity in dealing with the Crown other than assistance given in the ordinary course of the public servant's employment.

8. (1) A public servant shall not, on behalf of the Crown, hire his or her spouse, child, parent or sibling.

(2) A public servant shall not, on behalf of the Crown, enter into a contract with his or her spouse, child, parent or sibling or with a person or entity in which any of them has a substantial interest.

(3) A public servant who hires a person on behalf of the Crown shall ensure that the person does not report to, or supervise the work of, the person's spouse, child, parent or sibling.

(4) A public servant who reports to, or supervises the work of, his or her spouse, child, parent or sibling shall notify his or her designated official.

9. A public servant shall not become employed by or engage in a business or undertaking outside his or her employment in the service of the Crown in any of the following circumstances:

1. If the public servant's private interests in connection with the employment or undertaking could conflict with his or her duties to the Crown.
2. If the employment or undertaking would interfere with the public servant's ability to perform his or her duties to the Crown.
3. If the employment is in a professional capacity and is likely to influence or detrimentally affect the public servant's ability to perform his or her duties to the Crown.
4. If the employment would constitute full-time employment for another person. This paragraph does not apply with respect to a public servant who is employed part-time by the Crown, or is on a leave of absence (as defined in subsection 70 (1)) or on secondment.
5. If, in connection with the employment or undertaking, any person would derive an advantage from the public servant's employment as a public servant.
6. If government premises, equipment or supplies are used in the employment or undertaking.

#### DUTY TO NOTIFY THE DESIGNATED OFFICIAL

10. (1) A public servant shall notify his or her designated official if circumstances could arise in which the public servant's private interests could conflict with his or her duties to the Crown.

(2) Without limiting the generality of subsection (1), the public servant shall notify the designated official of the existence of circumstances in which the public servant could benefit from a decision by the Crown that he or she is able to influence in the course of his or her duties to the Crown.

(3) The public servant shall disclose the particulars of the potential conflict of interest to the designated official.

(4) If the circumstances arise in connection with the public servant's membership as a public servant in a body or a group, he or she shall notify the other members of the body or group about the existence of a potential conflict of interest and shall not participate when the body or group makes a decision in the circumstances.

#### CONDUCT RELATING TO THE PRIVATIZATION OF CROWN ACTIVITIES

11. Sections 12 to 14 apply as indicated to the following classes of public servant:

1. Public servants who routinely work on privatization issues and who have access to confidential information about those issues obtained during the course of their employment in the service of the Crown.

2. Public servants who are working on a particular privatization matter that has been referred to the Privatization Secretariat for review and who have access to confidential information about that matter obtained during the course of their employment in the service of the Crown.

12. (1) A public servant working on a particular privatization matter shall make a declaration to his or her designated third party about whether the public servant's private interests could conflict with his or her duties to the Crown respecting the matter.

(2) The declaration must be made when the public servant first becomes involved in work on the privatization matter.

(3) The public servant shall promptly revise his or her declaration if there is a change in his or her circumstances such that the public servant's private interests could conflict with his or her duties to the Crown.

(4) Section 10 applies if the declaration indicates that the public servant's private interests could conflict with his or her duties to the Crown.

13. (1) A public servant who routinely works on privatization issues shall, subject to subsection (2), disclose the following matters respecting his or her financial interests to his or her designated third party:

1. A legal or beneficial interest of the public servant in securities or derivatives of corporations or governments, other than the Government of Ontario.
2. A legal or beneficial interest of the public servant in a business entity or a commercial operation or in the assets of such an entity or operation.
3. A legal or beneficial interest of the public servant in real property.
4. A legal or beneficial interest of the public servant in a mutual fund that is operated as an investment club where,
  - i. its shares or units are held by not more than 50 persons and its indebtedness has never been offered to the public,
  - ii. it does not pay or give any remuneration for investment advice or in respect of trades in securities, except normal brokerage fees, and
  - iii. all of its members are required to make contributions in proportion to the shares or units each holds for the purpose of financing its operations.

(2) The public servant is not required to disclose his or her legal or beneficial interest in any of the following:

1. A mutual fund within the meaning of subsection 1 (1) of the *Securities Act* other than a mutual fund described in paragraph 4 of subsection (1).
2. Fixed-value securities issued or guaranteed by a government or a government agency.
3. A guaranteed investment certificate or similar financial instrument issued by a financial institution entitled by law to issue such instruments.
4. A registered pension plan, an employee benefit plan, an annuity or life insurance policy or a deferred profit sharing plan.
5. Real property that the public servant, or a member of his or her family, uses primarily as a residence or for recreational purposes.



(3) The public servant shall disclose the information required by subsection (1), with necessary modifications, in respect of his or her spouse and dependent children, but only to the extent that the legal or beneficial interests of the spouse or a child could create a conflict of interest.

(4) For the purpose of subsection (3), the public servant shall make reasonable efforts to obtain information about the financial interests described in subsection (1) of his or her spouse and dependent children.

14. (1) A public servant who routinely works on privatization issues shall not purchase or cause another person to purchase on his or her behalf a legal or beneficial interest in a person or entity,

(a) that is carrying on an activity formerly carried on by the Crown that the Crown has privatized; or

(b) that proposes to carry on an activity formerly carried on by the Crown that the Crown wishes to privatize.

(2) A public servant working on a particular privatization matter shall not purchase or cause another person to purchase on his or her behalf a legal or beneficial interest in a person or entity,

(a) that is carrying on an activity relating to the matter that he or she worked on that the Crown has privatized; or

(b) that proposes to carry on an activity relating to the matter that he or she worked on that the Crown wishes to privatize.

(3) Despite subsections (1) and (2), a public servant may purchase an interest in a mutual fund (within the meaning of subsection 1 (1) of the *Securities Act*) that includes securities of a person or entity described in subsection (1) or (2) but not an interest in a mutual fund described in paragraph 4 of subsection 13 (1) that includes such securities.

(4) The prohibition described in subsection (1) or (2) ceases to have effect with respect to a particular activity six months after the date on which the privatization of the activity is completed or the Crown ceases to endeavour to privatize the activity.

#### ADMINISTRATION

15. (1) The Civil Service Commission shall maintain a current list of,

(a) positions in which public servants routinely work on privatization issues and have access to confidential information about those issues obtained during the course of their employment in the service of the Crown;

(b) positions in which public servants work on a particular privatization matter that has been referred to the Privatization Secretariat and have access to confidential information about that matter obtained during the course of their employment in the service of the Crown.

(2) The Commission shall ensure that persons in the positions described in subsection (1) are advised of the duties and restrictions imposed upon them under sections 12 to 14.

(3) Every designated official shall notify the Commission of changes to be made to the list with respect to those persons for whom he or she is the designated official.

16. (1) A designated official or designated third party may collect, use and disclose information obtained under this Regulation.

(2) A designated official or designated third party shall not disclose information obtained under this Regulation unless,

(a) the person to whom the information relates consents to the disclosure; or

(b) the disclosure is required by law in connection with a legal proceeding relating to this Regulation.

(3) Despite subsection (2), the designated official or designated third party may disclose information when he or she is engaging in consultations for the purpose of advising the public servant or determining whether this Regulation has been or may be contravened.

CIVIL SERVICE COMMISSION:

MICHELE NOBLE  
*Chair*

MORAG DION  
*Secretary*

Dated on November 7, 1997.

51/97

#### ONTARIO REGULATION 436/97 made under the PUBLIC SERVICE ACT

Made: November 7, 1997  
Approved: November 19, 1997  
Filed: December 3, 1997

Amending Reg. 977 of R.R.O. 1990  
(General)

Note: Regulation 977 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

1. Section 15 Regulation 977 of the Revised Regulations of Ontario, 1990 is revoked.

CIVIL SERVICE COMMISSION:

MICHELE NOBLE  
*Chair*

MORAG DION  
*Secretary*

Dated on November 7, 1997.

51/97



**ONTARIO REGULATION 437/97**  
made under the  
**ONTARIO COLLEGE OF TEACHERS ACT, 1996**

English version made: September 30, 1997  
English version approved: October 8, 1997  
French version made: November 14, 1997  
French version approved: November 19, 1997  
Regulation filed: December 4, 1997

**PROFESSIONAL MISCONDUCT**

1. The following acts are defined as professional misconduct for the purposes of subsection 30 (2) of the Act:

1. Providing false information or documents to the College or any other person with respect to the member's professional qualifications.
2. Inappropriately using a term, title or designation indicating a specialization in the profession which is not specified on the member's certificate of qualification and registration.
3. Permitting, counselling or assisting any person who is not a member to represent himself or herself as a member of the College.
4. Using a name other than the member's name, as set out in the register, in the course of his or her professional duties.
5. Failing to maintain the standards of the profession.
6. Releasing or disclosing information about a student to a person other than the student or, if the student is a minor, the student's parent or guardian. The release or disclosure of information is not an act of professional misconduct if,
  - i. the student (or if the student is a minor, the student's parent or guardian) consents to the release or disclosure, or
  - ii. if the release or disclosure is required or allowed by law.
7. Abusing a student physically, sexually, verbally, psychologically or emotionally.
8. Practising or purporting to practise the profession while under the influence of any substance or while adversely affected by any dysfunction,
  - i. which the member knows or ought to know impairs the member's ability to practise, and
  - ii. in respect of which treatment has previously been recommended, ordered or prescribed but the member has failed to follow the treatment.
9. Contravening a term, condition or limitation imposed on the member's certificate of qualification and registration.
10. Failing to keep records as required by his or her professional duties.
11. Failing to supervise adequately a person who is under the professional supervision of the member.
12. Signing or issuing, in the member's professional capacity, a document that the member knows or ought to know contains a false, improper or misleading statement.
13. Falsifying a record relating to the member's professional responsibilities.

**RÈGLEMENT DE L'ONTARIO 437/97**  
pris en application de la  
**LOI DE 1996 SUR L'ORDRE DES ENSEIGNANTES**  
**ET DES ENSEIGNANTS DE L'ONTARIO**

version anglaise prise le 30 septembre 1997  
version anglaise approuvée le 8 octobre 1997  
version française prise le 14 novembre 1997  
version française approuvée le 19 novembre 1997  
règlement déposé le 4 décembre 1997

**FAUTE PROFESSIONNELLE**

1. Pour l'application du paragraphe 30 (2) de la Loi, les actes suivants commis par un membre constituent des fautes professionnelles :

1. La fourniture à l'Ordre ou à toute autre personne de faux renseignements ou documents concernant sa compétence professionnelle.
2. L'utilisation inappropriée d'un terme, d'un titre ou d'une désignation indiquant une spécialisation professionnelle qui ne figure pas sur son certificat de compétence et d'inscription.
3. Le fait de permettre à une personne qui n'est pas membre de se présenter comme un membre de l'Ordre, ou de l'aider à ce faire, ou encore de la conseiller en ce sens.
4. L'utilisation dans l'exercice de ses fonctions professionnelles d'un autre nom que le sien, tel qu'il figure au tableau.
5. Le défaut de respecter les normes de la profession.
6. La communication ou la divulgation de renseignements concernant un élève à un tiers ou, si l'élève est mineur, à une personne autre que son père, sa mère ou son tuteur. La communication ou la divulgation de renseignements ne constitue pas une faute professionnelle si, selon le cas :
  - i. l'élève (ou si l'élève est mineur, son père, sa mère ou son tuteur) consent à la communication ou à la divulgation de renseignements,
  - ii. la communication ou la divulgation de renseignements est exigée ou permise par une disposition législative ou réglementaire.
7. Le fait d'infliger à un élève des mauvais traitements d'ordre physique, sexuel, verbal, psychologique ou affectif.
8. L'exercice ou l'exercice apparent de la profession lorsqu'il est sous l'effet d'une substance intoxicante ou atteint d'un trouble quelconque :
  - i. alors qu'il sait ou devrait savoir que cet état ou ce trouble compromet sa capacité d'exercer sa profession,
  - ii. pour lequel il n'a pas suivi le traitement qui lui a été recommandé, ordonné ou prescrit.
9. La contravention à une condition ou à une restriction dont est assorti son certificat de compétence et d'inscription.
10. Le défaut de tenir des dossiers comme l'exigent ses fonctions professionnelles.
11. Le défaut de surveiller adéquatement une personne placée sous sa surveillance professionnelle.
12. La signature ou la délivrance, dans l'exercice de sa profession, d'un document qu'il sait ou devrait savoir contenir une déclaration fausse, irrégulière ou trompeuse.
13. La falsification d'un dossier concernant ses responsabilités professionnelles.

14. Failing to comply with the Act or the regulations or the by-laws.
15. Failing to comply with the *Education Act* or the regulations made under that Act, if the member is subject to that Act.
16. Contravening a law if the contravention is relevant to the member's suitability to hold a certificate of qualification and registration.
17. Contravening a law if the contravention has caused or may cause a student who is under the member's professional supervision to be put at or to remain at risk.
18. An act or omission that, having regard to all the circumstances, would reasonably be regarded by members as disgraceful, dishonourable or unprofessional.
19. Conduct unbecoming a member.
20. Failing to appear before a panel of the Investigation Committee to be cautioned or admonished, if the Investigation Committee has required the member to appear under clause 26 (5) (c) of the Act.
21. Failing to comply with an order of a panel of the Discipline Committee or an order of a panel of the Fitness to Practise Committee.
22. Failing to co-operate in a College investigation.
23. Failing to take reasonable steps to ensure that the requested information is provided in a complete and accurate manner if the member is required to provide information to the College under the Act and the regulations.
24. Failing to abide by a written undertaking given by the member to the College or by an agreement entered into by the member with the College.
25. Failing to respond adequately or within a reasonable time to a written inquiry from the College.
26. Practising the profession while the member is in a conflict of interest.
27. Failing to comply with the member's duties under the *Child and Family Services Act*.
2. A finding of incompetence, professional misconduct or a similar finding against a member by a governing authority of the teaching profession in a jurisdiction other than Ontario that is based on facts that would, in the opinion of the Discipline Committee, constitute professional misconduct as defined in section 1, is defined as professional misconduct for the purposes of subsection 30 (2) of the Act.
14. L'inobservation de la Loi ou des règlements, ou des règlements administratifs.
15. L'inobservation de la *Loi sur l'éducation* ou de ses règlements d'application, s'il est assujéti à cette loi.
16. La contravention à une disposition législative ou réglementaire si cette contravention se rapporte à son aptitude à détenir un certificat de compétence et d'inscription.
17. La contravention à une disposition législative ou réglementaire si cette contravention a mis, met ou risque de mettre en danger un élève placé sous sa surveillance professionnelle.
18. Tout acte ou toute omission que les membres pourraient raisonnablement juger honteux, déshonorant ou contraire aux devoirs de la profession, compte tenu de l'ensemble des circonstances.
19. Toute conduite qui ne sied pas au statut de membre.
20. Le défaut de se présenter devant un sous-comité du comité d'enquête pour recevoir un avertissement ou une réprimande, si le comité d'enquête a exigé qu'il se présente en vertu de l'alinéa 26 (5) c) de la Loi.
21. Le défaut de se conformer à une ordonnance d'un sous-comité du comité de discipline ou d'un sous-comité du comité d'aptitude professionnelle.
22. Le défaut de collaborer lors d'une enquête menée par l'Ordre.
23. Le défaut de prendre des mesures raisonnables pour veiller à ce que les renseignements demandés soient fournis de façon complète et exacte s'il est tenu de fournir des renseignements aux termes de la Loi et des règlements.
24. Le non-respect d'un engagement qu'il a pris par écrit envers l'Ordre ou d'une entente conclue entre lui et l'Ordre.
25. Le défaut de répondre adéquatement ou dans un délai raisonnable à une demande de renseignements écrite émanant de l'Ordre.
26. L'exercice de la profession lorsqu'il est en situation de conflit d'intérêts.
27. Le défaut de se conformer aux obligations qui lui incombent aux termes de la *Loi sur les services à l'enfance et à la famille*.
2. Une constatation d'incompétence ou de faute professionnelle, ou toute autre constatation semblable, faite à l'endroit d'un membre par le corps dirigeant de la profession enseignante dans un territoire autre que l'Ontario et fondée sur des faits qui, de l'avis du comité de discipline, constitueraient une faute professionnelle au sens de l'article 1, est qualifiée de faute professionnelle pour l'application du paragraphe 30 (2) de la Loi.

THE COUNCIL OF THE ONTARIO COLLEGE OF TEACHERS:

LE CONSEIL DE L'ORDRE DES ENSEIGNANTES  
ET DES ENSEIGNANTS DE L'ONTARIO :D. M. KENNEDY  
ChairD. M. KENNEDY  
Présidente

Dated on September 30, 1997.

Fait le 14 novembre 1997.



**ONTARIO REGULATION 438/97**  
made under the  
**MUNICIPAL ACT**

Made: December 3, 1997

Filed: December 5, 1997

**ELIGIBLE INVESTMENTS**

1. A municipality does not have the power to invest under section 167 of the Act in a security other than a security prescribed under this Regulation.

2. The following are prescribed, for the purposes of clause 167 (2) (a) of the Act, as securities that a municipality may invest in:

1. Bonds, debentures, promissory notes or other evidence of indebtedness issued or guaranteed by,
  - i. Canada or a province or territory of Canada,
  - ii. an agency of Canada or a province or territory of Canada,
  - iii. a country other than Canada,
  - iv. a municipality in Canada including the municipality making the investment,
  - v. a school board or similar entity in Canada,
  - vi. a local board as defined in the *Municipal Affairs Act* (but not including a school board or a municipality) or a conservation authority established under the *Conservation Authorities Act*, or
  - vii. the Municipal Finance Authority of British Columbia.
2. Bonds, debentures, promissory notes or other evidence of indebtedness of a corporation if,
  - i. the bond, debenture or other evidence of indebtedness is secured by the assignment, to a trustee, as defined in the *Trustee Act*, of payments that Canada or a province or territory of Canada has agreed to make or is required to make under a federal, provincial or territorial statute, and
  - ii. the payments referred to in subparagraph i are sufficient to meet the amounts payable under the bond, debenture or other evidence of indebtedness, including the amounts payable at maturity.
3. Deposit receipts, deposit notes, certificates of deposit or investment, acceptances or similar instruments issued, guaranteed or endorsed by,
  - i. a bank listed in Schedule I or II to the *Bank Act* (Canada),
  - ii. a loan corporation or trust corporation registered under the *Loan and Trust Corporation Act*,
  - iii. a credit union or league to which the *Credit Union and Caisses Populaires Act* applies, or
  - iv. the Province of Ontario Savings Office.
4. Bonds, debentures or evidence of long-term indebtedness issued or guaranteed by an institution listed in paragraph 3.

5. Short term securities, the terms of which provide that the principal and interest shall be fully repaid no later than three days after the day the investment was made, that are issued by,

- i. the board of governors of a college of applied arts and technology established under section 5 of the *Ministry of Colleges and Universities Act*,
- ii. a degree granting institution as authorized under section 3 of the *Degree Granting Act*, or
- iii. a board as defined in the *Public Hospitals Act*.

6. Bonds, debentures or other securities issued or guaranteed by the International Bank for Reconstruction and Development.

3. (1) A municipality shall not invest in a security under subparagraph iii of paragraph 1 or paragraph 4 of section 2 unless the bond, debenture, promissory note or evidence of indebtedness is rated,

- (a) by Canadian Bond Rating Service Inc. as "AA-" or higher;
- (b) by Dominion Bond Rating Service Limited as "AA(low)" or higher;
- (c) by Moody's Investors Services Inc. as "Aa3" or higher; or
- (d) by Standard and Poor's Inc. as "AA-" or higher.

(2) If an investment made under subparagraph iii of paragraph 1 or paragraph 4 of section 2 falls below the standard required under subsection (1), the municipality shall sell the investment within 90 days after the day the investment falls below the standard.

4. (1) A municipality shall not invest more than 25 per cent of the total amount in all sinking and retirement funds in respect of debentures of the municipality, as estimated by its treasurer on the date of the investment, in short-term debt issued or guaranteed by the municipality.

(2) In this section,

"short-term debt" means any debt, the terms of which provide that the principal and interest of the debt shall be fully repaid no later than 364 days after the debt is incurred.

5. A municipality shall not invest in a security issued or guaranteed by a school board or similar entity unless,

- (a) the money raised by issuing the security is to be used for school purposes; and
- (b) the security is to be repaid entirely from taxes or charges levied on property, with grants or appropriations made by the government of Canada or a province or territory of Canada or a municipality, or from a combination of such taxes, charges, grants and appropriations.

6. (1) A municipality shall not invest in a security that is expressed or payable in any currency other than Canadian dollars.

(2) Subsection (1) does not prevent a municipality from continuing an investment, made before this Regulation comes into force, that is expressed and payable in the currency of the United States of America or the United Kingdom.

7. Before a municipality invests in a security prescribed under this Regulation, the council of the municipality shall, if it has not already done so, adopt a statement of the municipality's investment policies and goals.

8. (1) If a municipality has an investment in a security prescribed under this Regulation, the council of the municipality shall require the treasurer of the municipality to prepare and provide to the council, each year or more frequently as specified by the council, an investment report.



- (2) The investment report referred to in subsection (1) shall contain,
- (a) a statement about the performance of the portfolio of investments of the municipality during the period covered by the report;
- (b) a description of the estimated proportion of the total investments of a municipality that are invested in its own long-term and short-term securities to the total investment of the municipality and a description of the change, if any, in that estimated proportion since the previous year's report;
- (c) a statement by the treasurer as to whether or not, in his or her opinion, all investments were made in accordance with the investment policies and goals adopted by the municipality;
- (d) a record of the date of each transaction in or disposal of its own securities, including a statement of the purchase and sale price of each security; and
- (e) such other information that the council may require or that, in the opinion of the treasurer, should be included.

9. (1) Despite this Regulation, an investment by a municipality in bonds, debentures or other indebtedness of a corporation made before March 6, 1997 may be continued if the bond, debenture or other indebtedness is rated,

- (a) by Canadian Bond Rating Service Inc. as "AA-" or higher;
- (b) by Dominion Bond Rating Service Limited as "AA(low)" or higher;
- (c) by Moody's Investors Services Inc. as "Aa3" or higher; or
- (d) by Standard and Poor's Inc. as "AA-" or higher.

(2) If the rating of an investment continued under subsection (1) falls below the standard required by that subsection, the municipality shall sell the investment within 90 days after the day the investment falls below the standard.

#### 10. Ontario Regulation 74/97 is revoked.

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### ONTARIO REGULATION 439/97 made under the COURTS OF JUSTICE ACT

Made: November 19, 1997  
Approved: December 3, 1997  
Filed: December 5, 1997

Amending Reg. 187 of R.R.O. 1990  
(District of Algoma Civil Case Management Rules)

Note: Regulation 187 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

1. Rule 18 of Regulation 187 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:

#### REVOCATION

18. These rules are revoked on December 31, 1998.

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### RÈGLEMENT DE L'ONTARIO 439/97 pris en application de la LOI SUR LES TRIBUNAUX JUDICIAIRES

pris le 19 novembre 1997  
approuvé le 3 décembre 1997  
déposé le 5 décembre 1997

modifiant le Règl. 187 des R.R.O. de 1990  
(Règles de gestion des causes civiles du district d'Algoma)

Remarque : Le Règlement 187 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

1. La règle 18 du Règlement 187 des Règlements refondus de l'Ontario de 1990 est abrogée et remplacée par ce qui suit :

#### ABROGATION

18. Les présentes règles sont abrogées le 31 décembre 1998.

### ONTARIO REGULATION 440/97 made under the COURTS OF JUSTICE ACT

Made: November 19, 1997  
Approved: December 3, 1997  
Filed: December 5, 1997

Amending Reg. 189 of R.R.O. 1990  
(Essex Civil Case Management Rules)

Note: Regulation 189 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

1. Rule 17 of Regulation 189 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:

#### REVOCATION

17. These rules are revoked on December 31, 1998.

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### RÈGLEMENT DE L'ONTARIO 440/97 pris en application de la LOI SUR LES TRIBUNAUX JUDICIAIRES

pris le 19 novembre 1997  
approuvé le 3 décembre 1997  
déposé le 5 décembre 1997

modifiant le Règl. 189 des R.R.O. de 1990  
(Règles de gestion des causes civiles d'Essex)

Remarque : Le Règlement 189 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

1. La règle 17 du Règlement 189 des Règlements refondus de l'Ontario de 1990 est abrogée et remplacée par ce qui suit :

#### ABROGATION

17. Les présentes règles sont abrogées le 31 décembre 1998.

**ONTARIO REGULATION 441/97**  
made under the  
**COURTS OF JUSTICE ACT**

Made: December 3, 1997  
Filed: December 5, 1997

Amending O. Reg. 992/93  
(Bilingual Proceedings: Additions to Schedules 1 and 2 of  
Section 126 of the Act)

Note: Ontario Regulation 922/93 has not previously been amended.

**1. Section 1 of Ontario Regulation 922/93 is amended by adding the following paragraph:**

1.1 County of Middlesex

**2. Section 2 of the Regulation is amended by adding the following paragraph:**

1.1 County of Middlesex

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**ONTARIO REGULATION 442/97**  
made under the  
**COURTS OF JUSTICE ACT**

Made: November 19, 1997  
Approved: December 3, 1997  
Filed: December 5, 1997

Amending Reg. 194 of R.R.O. 1990  
(Rules of Civil Procedure)

Note: Since January 1, 1997, Regulation 194 has been amended by Ontario Regulations 118/97, 348/97 and 427/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. The definition of "county" in rule 1.03 of Regulation 194 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

"county" includes a district, a regional or district municipality, and the City of Toronto; ("comté")

**2. Subrule 14.01.1 (1) of the Regulation is amended by striking out "the Municipality of Metropolitan Toronto" and substituting "the City of Toronto".**

**3. Subrule 18.03 (1) of the Regulation is amended by striking out "the Municipality of Metropolitan Toronto" and substituting "the City of Toronto".**

**4. Clause 77.01 (1) (b) of the Regulation is revoked and the following substituted:**

(b) commenced in The Municipality of Metropolitan Toronto on or after December 2, 1991 or in the City of Toronto on or after January 1, 1998 and randomly assigned to case management by the registrar, acting under the direction of the regional senior judge.

**5. This Regulation comes into force on the day the *City of Toronto Act, 1997* (No. 2) comes into force.**

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**RÈGLEMENT DE L'ONTARIO 441/97**  
pris en application de la  
**LOI SUR LES TRIBUNAUX JUDICIAIRES**

pris le 3 décembre 1997  
déposé le 5 décembre 1997

modifiant le Règl. de l'Ont. 992/93  
(Instances bilingues : ajouts aux annexes 1 et 2 de  
l'article 126 de la Loi)

Remarque : Le Règlement de l'Ontario 922/93 n'a pas été modifié antérieurement.

**1. L'article 1 du Règlement de l'Ontario 922/93 est modifié par adjonction de la disposition suivante :**

1.1 Le comté de Middlesex.

**2. L'article 2 du Règlement est modifié par adjonction de la disposition suivante :**

1.1 Le comté de Middlesex.

**RÈGLEMENT DE L'ONTARIO 442/97**  
pris en application de la  
**LOI SUR LES TRIBUNAUX JUDICIAIRES**

pris le 19 novembre 1997  
approuvé le 3 décembre 1997  
déposé le 5 décembre 1997

modifiant le Règl. 194 des R.R.O. de 1990  
(Règles de procédure civile)

Remarque : Depuis le 1<sup>er</sup> janvier 1997, le Règlement 194 a été modifié par les Règlements de l'Ontario 118/97, 348/97 et 427/97. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. La définition de «comté» à la règle 1.03 du Règlement 194 des Règlements refondus de l'Ontario de 1990 est abrogée et remplacée par ce qui suit :**

«comté» S'entend en outre d'un district, d'une municipalité régionale ou de district, ou de la cité de Toronto. («county»)

**2. Le paragraphe 14.01.1 (1) du Règlement est modifié par substitution de «cité de Toronto» à «municipalité de la communauté urbaine de Toronto».**

**3. Le paragraphe 18.03 (1) du Règlement est modifié par substitution de «cité de Toronto» à «municipalité de la communauté urbaine de Toronto».**

**4. L'alinéa 77.01 (1) b) du Règlement est abrogé et remplacé par ce qui suit :**

b) introduites dans la municipalité de la communauté urbaine de Toronto à compter du 2 décembre 1991 ou dans la cité de Toronto à compter du 1<sup>er</sup> janvier 1998 et affectées au hasard au système de gestion des causes par le greffier, qui agit selon les directives du juge principal régional.

**5. Le présent règlement entre en vigueur le jour de l'entrée en vigueur de la *Loi de 1997 sur la cité de Toronto* (n° 2).**

**ONTARIO REGULATION 443/97**  
made under the  
**FARM PRODUCTS MARKETING ACT**

Made: November 13, 1997  
Filed: December 5, 1997

Amending Reg. 402 of R.R.O. 1990  
(Chickens—Marketing)

Note: Regulation 402 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Clause 5 (i) of Regulation 402 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

- (i) requiring and providing for the furnishing of security or proof of financial responsibility or of a performance bond by a person or class of persons engaged in the producing, marketing or processing of chicken and providing for the administration, forfeiture and disposition of any money or securities so furnished and the proceeds therefrom.

**2. Section 19 of the Regulation is amended by adding the following subsection:**

(7) The arbitration board shall not make an award if the parties reach an agreement on all matters in dispute and inform the board of that fact before an award is made.

ONTARIO FARM PRODUCTS MARKETING COMMISSION:

JAMES H. WHEELER  
*Chair*

GLORIA MARCO BORYS  
*Secretary*

Dated on November 13, 1997.

51/97

**ONTARIO REGULATION 444/97**  
made under the  
**DRUG AND PHARMACIES REGULATION ACT**

Made: November 7, 1997  
Approved: December 3, 1997  
Filed: December 5, 1997

Amending O. Reg. 297/96  
(General)

Note: Since January 1, 1997, Ontario Regulation 297/96 has been amended by Ontario Regulation 119/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. (1) Subsection 2 (1) of Ontario Regulation 297/96 is amended by striking out "\$650" in the second line and substituting "\$385".**

**(2) Subsection 2 (4) of the Regulation is amended by striking out "to" after "due" in the second line.**

COUNCIL OF THE ONTARIO COLLEGE OF PHARMACISTS:

S. BALESTRINI  
*President*

A. J. DUNSDON  
*Registrar*

Dated on November 7, 1997.

51/97

**ONTARIO REGULATION 445/97**  
made under the  
**FARM REGISTRATION AND FARM  
ORGANIZATIONS FUNDING ACT, 1993**

Made: November 24, 1997  
Filed: December 5, 1997

Amending O. Reg. 722/93  
(Filing dates)

Note: Ontario Regulation 722/93 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. (1) Section 1 of Ontario Regulation 722/93 is amended by striking out the portion before paragraph 1 and substituting the following:**

1. For the purpose of subsection 2 (4) of the Act, if the Ministry provides a farming business registration form before the date by which it is to be filed as determined under paragraphs 1 and 2, the date by which the form shall be filed is determined in accordance with the following:

**RÈGLEMENT DE L'ONTARIO 445/97**  
pris en application de la  
**LOI DE 1993 SUR L'INSCRIPTION DES ENTREPRISES  
AGRICOLES ET LE FINANCEMENT  
DES ORGANISMES AGRICOLES**

pris le 24 novembre 1997  
déposé le 5 décembre 1997

modifiant le Règl. de l'Ont. 722/93  
(Dates de dépôt)

Remarque : Le Règlement de l'Ontario 722/93 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. (1) L'article 1 du Règlement de l'Ontario 722/93 est modifié par substitution de ce qui suit à la partie qui précède la disposition 1 :**

1. Pour l'application du paragraphe 2 (4) de la Loi, si le ministère fournit une formule d'inscription d'entreprise agricole avant la date à laquelle elle doit être déposée d'après les dispositions 1 et 2, la date de ce dépôt est fixée conformément à ce qui suit :



(2) Paragraph 3 of section 1 of the Regulation is revoked and the following substituted:

3. If the form cannot be filed by the relevant date as determined under paragraphs 1 and 2, a farming business that files the form on or before August 31 in the year may still be registered for that year, but not if the form is filed after that date.

(3) Section 1 of the Regulation is amended by adding the following subsections:

(2) If the Ministry does not send the farming business registration form to the farming business's mailing address before the relevant date as determined under paragraphs 1 and 2 of subsection (1), the date by which the form shall be filed is the date that is 60 days after the date the Ministry sends the form.

(3) Despite subsections (1) and (2), the date by which that part of the farming business registration form requiring records under paragraph 12 of section 2 of Ontario Regulation 723/93 shall be filed is 60 days after the date the Ministry sends that part of the form to the farming business's mailing address.

2. This Regulation comes into force on January 1, 1998.

NOBLE VILLENEUVE  
*Minister of Agriculture, Food and Rural Affairs*

Dated on November 24, 1997.

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(2) La disposition 3 de l'article 1 du Règlement est abrogée et remplacée par ce qui suit :

3. Si la formule ne peut pas être déposée à la date pertinente déterminée aux termes des dispositions 1 et 2, une entreprise agricole qui dépose la formule au plus tard le 31 août de l'année peut encore être inscrite pour cette année, mais cela n'est pas possible si la formule est déposée après cette date.

(3) L'article 1 du Règlement est modifié par adjonction des paragraphes suivants :

(2) Si le ministère n'envoie pas la formule d'inscription d'entreprise agricole à l'adresse postale de l'entreprise agricole avant la date pertinente fixée aux termes des dispositions 1 et 2 du paragraphe (1), la formule doit être déposée au plus tard à une date qui est postérieure de 60 jours à la date à laquelle le ministère envoie la formule.

(3) Malgré les paragraphes (1) et (2), la date à laquelle la partie de la formule d'inscription d'entreprise agricole exigeant des renseignements aux termes de la disposition 12 de l'article 2 du Règlement de l'Ontario 723/93 doit être déposée est fixée à 60 jours après la date à laquelle le ministère envoie cette partie de la formule à l'adresse postale de l'entreprise agricole.

2. Le présent règlement entre en vigueur le 1<sup>er</sup> janvier 1998.

NOBLE VILLENEUVE  
*Ministre de l'Agriculture, de l'Alimentation et des Affaires rurales*

Fait le 24 novembre 1997.

**ONTARIO REGULATION 446/97**  
made under the  
**FARM REGISTRATION AND FARM**  
**ORGANIZATIONS FUNDING ACT, 1993**

Made: December 3, 1997  
Filed: December 5, 1997

Amending O. Reg. 723/93  
(General)

Note: Ontario Regulation 723/93 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

1. (1) Paragraph 1 of section 2 of Ontario Regulation 723/93 is revoked and the following substituted:

1. The name and location of the farms operated by the farming business and the municipal assessment roll numbers for all property used by the farming business.

(2) Section 2 of the Regulation is amended by adding the following paragraph:

12. For the purpose of verifying the farming business's eligibility for the Class 6—farmlands property tax rate under the *Assessment Act*, financial, inventory and business organization records of the farming business sufficient to establish the gross income from farming of the farming business for the year and the citizenship and residency of the persons who carry on the farming business.

2. This Regulation comes into force on January 1, 1998.

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**RÈGLEMENT DE L'ONTARIO 446/97**  
pris en application de la  
**LOI DE 1993 SUR L'INSCRIPTION DES ENTREPRISES**  
**AGRICOLES ET LE FINANCEMENT**  
**DES ORGANISMES AGRICOLES**

pris le 3 décembre 1997  
déposé le 5 décembre 1997

modifiant le Règl. de l'Ont. 723/93  
(Dispositions générales)

Remarque : Le Règlement de l'Ontario 723/93 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

1. (1) La disposition 1 de l'article 2 du Règlement de l'Ontario 723/93 est révoquée et remplacée par ce qui suit :

1. Le nom et l'emplacement des fermes qu'exploite l'entreprise agricole et les numéros du rôle de l'évaluation municipale pour tous les biens qu'utilise l'exploitation agricole.

(2) L'article 2 du Règlement est modifié par adjonction de la disposition suivante :

12. Dans le but de vérifier l'admissibilité de l'entreprise agricole au taux d'imposition sur les biens-fonds agricoles, catégorie 6, aux termes de la *Loi sur l'évaluation foncière*, les renseignements concernant les finances, l'inventaire et les affaires de l'entreprise agricole qui sont suffisants pour établir le revenu brut de cette entreprise pour l'année et la citoyenneté et la résidence des personnes qui exploitent l'entreprise agricole.

2. Le présent règlement entre en vigueur le 1<sup>er</sup> janvier 1998.

**ONTARIO REGULATION 447/97**  
made under the  
**COURTS OF JUSTICE ACT**

Made: November 24, 1997  
Approved: December 3, 1997  
Filed: December 5, 1997

Amending O. Reg. 704/91  
(Toronto Family Case Management Rules)

Note: Ontario Regulation 704/91 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Rule 6.02 of Ontario Regulation 704/91 is revoked and the following substituted:**

**6.02 These rules are revoked on December 31, 1998.**

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**RÈGLEMENT DE L'ONTARIO 447/97**  
pris en application de la  
**LOI SUR LES TRIBUNAUX JUDICIAIRES**

pris le 24 novembre 1997  
approuvé le 3 décembre 1997  
déposé le 5 décembre 1997

modifiant le Règl. de l'Ont. 704/91  
(Règles de gestion des causes en droit de la famille de Toronto)

Remarque : Le Règlement de l'Ontario 704/91 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. La règle 6.02 du Règlement de l'Ontario 704/91 est abrogée et remplacée par ce qui suit :**

**6.02 Les présentes règles sont abrogées le 31 décembre 1998.**

**ONTARIO REGULATION 448/97**  
made under the  
**CROWN FOREST SUSTAINABILITY ACT, 1994**

Made: December 3, 1997  
Filed: December 5, 1997

Amending O. Reg. 167/95  
(General)

Note: Ontario Regulation 167/95 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Sections 3, 4 and 5 of Ontario Regulation 167/95 are revoked.**

**2. Schedules 1 and 2 to the Regulation are revoked.**

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**ONTARIO REGULATION 449/97**  
made under the  
**OCCUPATIONAL HEALTH AND SAFETY ACT**

Made: December 3, 1997  
Filed: December 5, 1997

Amending O. Reg. 714/94  
(Firefighters—Protective Equipment)

Note: Ontario Regulation 714/94 has not previously been amended.

**1. Sections 7 and 8 of Ontario Regulation 714/94 are revoked and the following substituted:**

**7. (1) This section applies to:**

1. A fire truck first put into service, by the employer or anyone else, on or after December 15, 1995.
2. A fire truck acquired by the employer on or after December 31, 1997.

(2) The cab of the fire truck shall be enclosed and shall have,

- (a) one or more driving and crew compartments;
- (b) a roof, floor, four sides and positive latching doors which together provide total enclosure of the driver and passengers; and
- (c) sufficient seats for the maximum number of persons intended under the manufacturer's specifications to be accommodated in the cab.

(3) The fire truck shall be equipped with sufficient anti-slip handholds to allow firefighters to use the position known as the three-point contact method when entering or exiting the cab.

(4) Tools, self-contained breathing apparatus and other fire fighting equipment or paraphernalia carried in the cab of the fire truck shall be secured to fixed positions by positive mechanical means or stowed in compartments with positive latching doors.

**7.1** The cab of a fire truck described in paragraph 1 of subsection 7 (1) shall have seats equipped with back and anti-whiplash head supports and seat belts.

**8. (1)** No firefighter shall travel on board a fire truck that is moving at more than 8 kilometres an hour unless he or she is seated within a cab or is travelling on the tailboard as allowed under subsection (2).

(2) Until December 15, 1999, a firefighter may travel on the tailboard of a fire truck that was first put into service by the employer before February 15, 1995 if,

- (a) adequate handles and suitable safety belts or harnesses are provided by the employer and are approved by the joint health and safety committee or the trade union, if any;
- (b) the surface of the tailboard has safe footing;
- (c) no person is standing on any other side of the truck while it is moving;
- (d) each firefighter has a minimum standing space on the tailboard of 56 cm x 56 cm;
- (e) the tailboard is strong enough to carry the number of firefighters who are standing on it; and
- (f) the employer provides an electrical signal system or a voice communication system between the driver and the persons on the tailboard.

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**ONTARIO REGULATION 450/97**  
made under the  
**OCCUPATIONAL HEALTH AND SAFETY ACT**

Made: December 3, 1997

Filed: December 5, 1997

Amending Reg. 851 of R.R.O. 1990  
(Industrial Establishments)

Note: Regulation 851 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Regulation 851 of the Revised Regulations of Ontario, 1990 is amended by inserting the following heading before section 6:**

**PLANS, SPECIFICATIONS AND RECORDS**

**2. Section 7 of the Regulation is revoked and the following substituted:**

7. (1) Subject to subsections (7), (8) and (11), this section applies when equipment, a machine or a device is to be constructed, developed, reconstructed, altered or installed in a factory, if the equipment, machine or device is,

- (a) used in a process that either uses or produces a designated substance or a substance that is hazardous because of its toxicity, flammability, temperature, pressure or other property; or
- (b) required by this Regulation to have a shield, guard, operating control acting as a guard or another device that prevents access.

(2) The owner or lessee of the equipment, machine or device shall ensure that design drawings, layout and specifications are prepared in accordance with good engineering practice.

(3) The design drawings, layout and specifications must include such of the following information and documents as are appropriate in the circumstances:

1. A plot plan.
2. Foundation plans
3. Elevations and sections.
4. Structural details.
5. Floor plans.
6. Drawings for the heating, electrical and sanitation systems.
7. Details respecting storage facilities.
8. Details respecting hazardous locations, including the electrical classification for the location under the Electrical Safety Code.
9. Details respecting ventilation systems.
10. Details respecting explosion venting and related baffles, chokers or dampers.
11. Details respecting any equipment, machine or device used in a process that either uses or produces a designated substance or a substance that is hazardous because of its toxicity, flammability, temperature, pressure or other property.

(4) For the purposes of subsection (3), the details to be provided must include any information that may be relevant in determining whether a hazard exists or in determining the nature and extent of a hazard.

(5) The owner or lessee shall obtain a report bearing the seal and signature of a professional engineer stating that the equipment, machine or device will comply with the Act and regulations if it is constructed, developed, reconstructed, altered and installed in accordance with the design drawings, layout and specifications.

(6) The owner or lessee shall keep the design drawings, layout and specifications and the professional engineer's report at or near the workplace at which the equipment, machine or device is located.

(7) This section does not apply in the following circumstances:

1. If the factory is a logging operation.
2. If the factory is a laundry operated in conjunction with a hospital, a hotel or a public or private institution that is operated for religious, charitable or educational purposes.

(8) This section does not apply with respect to the installation of equipment, a machine or a device described by clause (1) (b),

- (a) if the equipment, machine or device is approved or certified as described in subsections (9) and (10);
- (b) if the shield, guard, operating control or other device was installed when the equipment, machine or device was manufactured; and
- (c) if the equipment, machine or device is installed in accordance with the manufacturer's instructions.

(9) The equipment, machine or device must be certified as complying with the applicable standards defined in CSA Standard CAN/CSA-Z142-M90 "Code for Punch Press and Brake Press Operation: Health, Safety and Guarding Requirements" or in CSA Standard Z432-94 "Safeguarding of Machinery" by a organization that is accredited by the Standards Council of Canada under the *Standards Council of Canada Act* (Canada).

(10) If the equipment, machine or device is electrical, it must be approved by the Ontario Hydro Electrical Inspection Department or certified as complying with the Electrical Safety Code by an organization that is accredited by the Standards Council of Canada under the *Standards Council of Canada Act* (Canada).

(11) This section does not apply with respect to the reconstruction or alteration of equipment, a machine or a device described by clause (1) (b) if the reconstruction or alteration does not reduce the effectiveness of the shield, guard, operating control or other device.

(12) For the purposes of this section,

"Electrical Safety Code" means Ontario Regulation 612/94 ("Electrical Safety Code") made under the *Power Corporation Act*.

**3. Section 8 of the Regulation is revoked.**

**4. The Regulation is amended by inserting the following heading before section 9:**

**FEEES AND FORMS**



## INDEX 51

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## Information

THE ONTARIO GAZETTE is published each Saturday and **advertisements must be received no later than Thursday 4 p.m., 9 days before publication of the issue in which they should appear.**

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**Cheques or money orders** should be made payable to THE MINISTER OF FINANCE and all correspondence, including address changes, should be mailed to:

THE ONTARIO GAZETTE  
50 Grosvenor Street, Toronto, Ontario M7A 1N8  
Telephone 326-5310  
Toll-Free 1-800-668-9938

## Information

LA GAZETTE DE L'ONTARIO paraît chaque samedi, et les annonces à y insérer doivent parvenir à ses bureaux le jeudi à 16 h au plus tard, soit au moins neuf jours avant la parution du numéro dans lequel elles figureront.

Les annonces, ainsi que le nom des signataires autorisés, doivent être dactylographiées ou écrites lisiblement. Les tarifs sont de 21,40 \$ par 25 mm, pour une colonne, et de 44,85 \$ par 25 mm, pour deux colonnes + 7% T.P.S. (payable à l'avance).

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**Les chèques ou mandats** doivent être faits à l'ordre DU MINISTRE DES FINANCES et toute correspondance, y compris les changements d'adresse, doit être adressée à :

LA GAZETTE DE L'ONTARIO  
50, rue Grosvenor, Toronto, (Ontario) M7A 1N8  
Telephone 326-5310  
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# The Ontario Gazette La Gazette de l'Ontario

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## Proclamations

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

### PROCLAMATION

*EDUCATION QUALITY IMPROVEMENT ACT, 1997*

We, by and with the advice of the Executive Council of Ontario, name Tuesday, March 31, 1998 as the day upon which Subsections 180(1), (3) and (4) of the *Education Quality Improvement Act, 1997*, come into force.

WITNESS:

THE HONOURABLE  
HILARY M. WESTON

LIEUTENANT GOVERNOR OF OUR  
PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on December 17, 1997.

BY COMMAND

CHRIS HODGSON  
Chair of the Management Board of Cabinet

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE DE L'ONTARIO

*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

### PROCLAMATION

*LOI DE 1997 SUR L'AMÉLIORATION DE LA QUALITÉ DE L'ÉDUCATION*

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le mardi 31 mars 1998 comme le jour où entrent en vigueur les paragraphes 180(1), (3) et (4) de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation*.

TÉMOIN :

L'HONORABLE  
HILARY M. WESTON

LIEUTENANTE-GOUVERNEURE DE NOTRE  
PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 17 décembre 1997.

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement  
(6127) 52

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(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

PROCLAMATION

*EDUCATION QUALITY IMPROVEMENT ACT, 1997*

A proclamation be issued naming Thursday, January 1, 1998, as the effective date upon which the Education Quality Improvement Act, 1997, comes into force, except for:

1. those sections of the Education Quality Improvement Act, 1997 which came into force on the day the Act received Royal Assent;
2. the following provisions of the Education Quality Improvement Act, 1997:

Subsections 1(2) and (3)  
 Subsection 7(1)  
 Section 81  
 Subsection 101(4)  
 Subsection 113(5)  
 Section 114  
 Section 115  
 Subsections 116(1), (3), (4), (6), (8) and (9)  
 Section 117  
 Section 118  
 Section 119  
 Section 147  
 Section 164  
 Subsection 167(7)  
 Subsections 180(1), (2), (3) and (4); and

3. subsection 287.2(3) of the Education Act as set out in section 127 of the Education Quality Improvement Act, 1997.

And that a proclamation be issued naming Sunday, February 1, 1998, as the effective date upon which Subsection 113(5) and Section 147 of the Education Quality Improvement Act, 1997, come into force.

And that a proclamation be issued naming Tuesday, March 31, 1998 as the effective date upon which Subsection 287.2(3) of the Education Act as set out in section 127 of the Education Quality Improvement Act, 1997 and Subsection 180(2) of the Education Quality Improvement Act, 1997, come into force.

And that a proclamation be issued naming Monday, August 31, 1998, as the effective date upon which the following provisions of the Education Quality Improvement Act, 1997, come into force:

Subsections 1(2) and (3)  
 Subsection 7(1)  
 Section 81  
 Section 114  
 Section 115  
 Subsections 116(1), (3), (4), (6), (8) and (9)  
 Section 117  
 Section 118  
 Section 119  
 Subsection 167(7)

WITNESS:

THE HONOURABLE  
 HILARY M. WESTON

LIEUTENANT GOVERNOR OF OUR  
 PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on December 15, 1997.

BY COMMAND

CHRIS HODGSON  
 Chair of the Management Board of Cabinet

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE DE L'ONTARIO

*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

PROCLAMATION

*LOI DE 1997 SUR L'AMÉLIORATION DE LA QUALITÉ DE L'ÉDUCATION*

Qu'une proclamation soit émise désignant le jeudi 1<sup>er</sup> janvier 1998 comme le jour où entre en vigueur la Loi de 1997 sur l'amélioration de la qualité de l'éducation, à l'exception :

1. des articles de la Loi sur l'amélioration de la qualité de l'éducation qui sont entrés en vigueur le jour où la Loi a reçu la sanction royale :
2. des dispositions suivantes de la Loi sur l'amélioration de la qualité de l'éducation :

Paragraphe 1(2) et (3)  
 Paragraphe 7(1)  
 Article 81  
 Paragraphe 101(4)  
 Paragraphe 113(5)  
 Article 114  
 Article 115  
 Paragraphes 116(1), (3), (4), (6), (8) et (9)  
 Article 117  
 Article 118  
 Article 119  
 Article 147  
 Article 164  
 Paragraphe 167(7)  
 Paragraphes 180(1), (2), (3) et (4); et

3. du paragraphe 287.2(3) de la Loi sur l'éducation tel qu'énoncé dans l'article 127 de la Loi de 1997 sur l'amélioration de la qualité de l'éducation.

Et qu'une proclamation soit émise désignant le dimanche 1<sup>er</sup> février 1998 comme le jour où entrent en vigueur le paragraphe 113(5) et l'article 147 de la Loi de 1997 sur l'amélioration de la qualité de l'éducation.

Et qu'une proclamation soit émise désignant le mardi 31 mars 1998 comme le jour où entrent en vigueur le paragraphe 287.2(3) de la Loi sur l'éducation tel qu'énoncé dans l'article 127 de la Loi de 1997 sur l'amélioration de la qualité de l'éducation et le paragraphe 180(2) de la Loi de 1997 sur l'amélioration de la qualité de l'éducation.

Et qu'une proclamation soit émise désignant le lundi 31 août 1998 comme le jour où entrent en vigueur les dispositions suivantes de la Loi sur l'amélioration de la qualité de l'éducation :

Paragraphes 1(2) et (3)  
 Paragraphe 7(1)  
 Article 81  
 Article 114  
 Article 115  
 Paragraphes 116(1), (3), (4), (6), (8) et (9)

Article 117  
Article 118  
Article 119  
Paragraphe 167(7)

TÉMOIN :

L'HONORABLE  
HILARY M. WESTON

LIEUTENANTE-GOUVERNEURE DE NOTRE  
PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 15 décembre 1997.

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement

(6128) 52

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

#### PROCLAMATION

##### *FINANCIAL SERVICES COMMISSION OF ONTARIO ACT, 1997*

We, by and with the advice of the Executive Council of Ontario, name Thursday, January 1, 1998 as the day upon which subsections 5 (1), 34 (1) and 34 (2), sections 38, 43 and 48, subsection 49 (2) and sections 150, 177, 180, 184, 191, 192, 193, 194, 195, 197, 198, 220 and 223 of the *Financial Services Commission of Ontario Act, 1997*, come into force.

WITNESS:

THE HONOURABLE  
HILARY M. WESTON

LIEUTENANT GOVERNOR OF OUR  
PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on December 17, 1997.

BY COMMAND

CHRIS HODGSON  
Chair of the Management Board of Cabinet

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE DE L'ONTARIO

*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

#### PROCLAMATION

##### *LOI DE 1997 SUR LA COMMISSION DES SERVICES FINANCIERS DE L'ONTARIO*

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le jeudi 1<sup>er</sup> janvier 1998 comme le jour où entrent en vigueur les paragraphes 5 (1), 34 (1) et 34 (2), les articles 38, 43 et 48, le paragraphe 49 (2) et les articles 150, 177, 180, 184, 191, 192, 193, 194, 195, 197, 198, 220 et 223 de la *Loi de 1997 sur la Commission des services financiers de l'Ontario*.

TÉMOIN :

L'HONORABLE  
HILARY M. WESTON

LIEUTENANTE-GOUVERNEURE DE NOTRE  
PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 17 décembre 1997.

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement

(6129) 52

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

#### PROCLAMATION

##### *REVENUE AND LIQUOR LICENCE STATUTE LAW AMENDMENT ACT, 1994*

We, by and with the advice of the Executive Council of Ontario, name Thursday, January 1, 1998 as the day upon which subsections 6 (8), (10), (12), (13), (14), (15), (17) and (20) of the *Revenue and Liquor Licence Statute Law Amendment Act, 1994*, come into force.

WITNESS:

THE HONOURABLE  
HILARY M. WESTON

LIEUTENANT GOVERNOR OF OUR  
PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on December 17, 1997.

BY COMMAND

CHRIS HODGSON  
Chair of the Management Board of Cabinet

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE DE L'ONTARIO

*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

## PROCLAMATION

*LOI DE 1994 MODIFIANT DIVERSES LOIS FISCALES ET LA LOI SUR LES PERMIS D'ALCOOL*

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le jeudi 1<sup>er</sup> janvier 1998 comme le jour où entrent en vigueur les paragraphes 6 (8), (10), (12), (13), (14), (15), (17) et (20) de la *Loi de 1994 modifiant diverses lois fiscales et la Loi sur les permis d'alcool*.

TÉMOIN :

L'HONORABLE  
HILARY M. WESTON

LIEUTENANTE-GOUVERNEURE DE NOTRE  
PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 17 décembre 1997.

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement

(6130) 52

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

## PROCLAMATION

*COMPREHENSIVE ROAD SAFETY ACT, 1997*

We, by and with the advice of the Executive Council of Ontario, name Monday, February 2, 1998 as the day upon which sections 6, 9, 10 and 11 of the *Comprehensive Road Safety Act, 1997*, come into force.

WITNESS:

THE HONOURABLE  
HILARY M. WESTON

LIEUTENANT GOVERNOR OF OUR  
PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on December 17, 1997.

BY COMMAND

CHRIS HODGSON  
Chair of the Management Board of Cabinet

(Great Seal of Ontario)

HILARY M. WESTON

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*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

## PROCLAMATION

*LOI DE 1997 SUR UN ENSEMBLE COMPLET DE MESURES VISANT LA SÉCURITÉ ROUTIÈRE*

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le lundi 2 février 1998 comme le jour où entrent en vigueur les articles 6, 9, 10 et 11 de la *Loi de 1997 sur un ensemble complet de mesures visant la sécurité routière*.

TÉMOIN :

L'HONORABLE  
HILARY M. WESTON

LIEUTENANTE-GOUVERNEURE DE NOTRE  
PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 17 décembre 1997.

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement

(6131) 52

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

## PROCLAMATION

*COMPREHENSIVE ROAD SAFETY ACT, 1997*

We, by and with the advice of the Executive Council of Ontario, name Wednesday, December 31, 1997 as the day upon which sections 15 and 16 of the *Comprehensive Road Safety Act, 1997*, come into force.

WITNESS:

THE HONOURABLE  
HILARY M. WESTON

LIEUTENANT GOVERNOR OF OUR  
PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on December 17, 1997.

BY COMMAND

CHRIS HODGSON  
Chair of the Management Board of Cabinet

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE DE L'ONTARIO

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## PROCLAMATION

*LOI DE 1997 SUR UN ENSEMBLE COMPLET DE MESURES  
VISANT LA SÉCURITÉ ROUTIÈRE*

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le mercredi 31 décembre 1997 comme le jour où entrent en vigueur les articles 15 et 16 de la *Loi de 1997 sur un ensemble complet de mesures visant la sécurité routière*.

TÉMOIN :

L'HONORABLE  
HILARY M. WESTON

LIEUTENANTE-GOUVERNEURE DE NOTRE  
PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 17 décembre 1997.

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement  
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(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

## PROCLAMATION

*ROAD SAFETY ACT, 1996*

We, by and with the advice of the Executive Council of Ontario, name Monday, January 26, 1998 as the day upon which section 2 of the *Road Safety Act, 1996*, comes into force.

WITNESS:

THE HONOURABLE  
HILARY M. WESTON

LIEUTENANT GOVERNOR OF OUR  
PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on December 17, 1997.

BY COMMAND

CHRIS HODGSON  
Chair of the Management Board of Cabinet

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE DE L'ONTARIO

*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

## PROCLAMATION

*LOI DE 1996 SUR LA SÉCURITÉ ROUTIÈRE*

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le lundi 26 janvier 1998 comme le jour où entre en vigueur l'article 2 de la *Loi de 1996 sur la sécurité routière*.

TÉMOIN :

L'HONORABLE  
HILARY M. WESTON

LIEUTENANTE-GOUVERNEURE DE NOTRE  
PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 17 décembre 1997.

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement  
(6133) 52

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE OF ONTARIO

*ELIZABETH THE SECOND*, by the Grace of God of the United Kingdom, Canada and Her other Realms and Territories, Queen, Head of the Commonwealth, Defender of the Faith.

## PROCLAMATION

*SOCIAL ASSISTANCE REFORM ACT, 1997*

We, by and with the advice of the Executive Council of Ontario, name Thursday, January 1, 1998 as the day upon which subsection 1(1) and subsections 2(1) and 2(2) of Schedule C and sections 1, 3, 12 and 13 of Schedule D of the *Social Assistance Reform Act, 1997*, come into force.

WITNESS:

THE HONOURABLE  
HILARY M. WESTON

LIEUTENANT GOVERNOR OF OUR  
PROVINCE OF ONTARIO

GIVEN at Toronto, Ontario, on December 17, 1997.

BY COMMAND

CHRIS HODGSON  
Chair of the Management Board of Cabinet

(Great Seal of Ontario)

HILARY M. WESTON

PROVINCE DE L'ONTARIO

*ELIZABETH DEUX*, par la grâce de Dieu, Reine du Royaume-Uni, du Canada et de ses autres royaumes et territoires, Chef du Commonwealth, Défenseur de la Foi.

## PROCLAMATION

## LOI DE 1997 SUR LA RÉFORME DE L'AIDE SOCIALE

Sur l'avis du Conseil exécutif de l'Ontario, nous désignons le jeudi 1<sup>er</sup> janvier 1998 comme le jour où entrent en vigueur le paragraphe 1(1) et les paragraphes 2(1) et 2(2) de l'Annexe C et les articles 1, 3, 12 et 13 de l'Annexe D de la *Loi de 1997 sur la réforme de l'aide sociale*.

## TÉMOIN :

L'HONORABLE  
HILARY M. WESTON

LIEUTENANTE-GOUVERNEURE DE NOTRE  
PROVINCE DE L'ONTARIO

FAIT à Toronto, (Ontario) le 17 décembre 1997.

PAR ORDRE

CHRIS HODGSON  
Président du Conseil de gestion du gouvernement

(6134) 52

## Motor Vehicle Transport Act/Truck Transportation Act Loi sur les transports routiers/Loi sur le camionnage

The following are applications for operating licences under the *Truck Transportation Act*, R.S.O. 1990, Chapter T.22, and/or the *Motor Vehicle Transport Act*, 1987, Chapter 35. The applicants have met the fitness requirements pursuant to Section 6 of the *Truck Transportation Act* and/or Section 8(2) of the *Motor Vehicle Transport Act*, 1987 and the provincial transport board and/or the Registrar of Motor Vehicles proposes to issue the licences if no written objection is served on the applicant and filed with the Registrar of Motor Vehicles, within thirty days of this publication.

The following applicants have applied for Authority to offer a transportation service for the carriage of Goods:

On trouvera ci-après la liste des demandes de permis d'exploitation présentées en vertu de la *Loi sur le camionnage*, L.R.O. 1990, chapitre T.22, et/ou la *Loi de 1987 sur les transports routiers*, L.C. 1987, chapitre 35. On a jugé que les personnes ayant présenté ces demandes se conformaient aux critères d'aptitude prévus au paragraphe 8(2) de la *Loi de 1987 sur les transports routiers* et l'office des transports de l'Ontario et/ou le registraire des véhicules automobiles dans les trente jours suivant la publication des présentes.

Les personnes suivantes ont demandé l'autorisation d'offrir des services de transport de marchandises à destination.

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BRADFORD, ON

**AFTIM TRANSPORT LTD**  
WINDSOR, ON

**BREWER, LYNDON, M.**  
STROUD, ON

**CHAMPAGNE, RICHARD, J.**  
NORTH BAY, ON

**CKC EXPRESS INC**  
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**DOMI EXPRESS INC.**  
ST-GEORGES EST, QC

**ENTERPRISE GENERALE RLJY INC.**  
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TORONTO, ON

**GREAT LAKES FREIGHT LTD.**  
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**GROUPE V.A. INC.**  
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WILLOWDALE, ON

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**JAMESON TRANSPORTATION  
SERVICES INC.**  
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LONDON, ON

**MOY, ALAN**  
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**ODORJAN, GARY, S.**  
TILLSONBURG, ON

**OWENS, DOUGLAS, M.**  
STERLING HEIGHTS, MI

**PIDGEON, V. L.**  
ST AGATHA, ON

**THE ON-SITE GROUP INC.**  
KITCHENER, ON

**TIGER TRANSPORT INC.**  
BRAMPTON, ON

**TRANS INTER F & M INC.**  
BEACONSFIELD, QC

**TRANSPORT JACQUES LEBLOND  
INC.**  
RIVIERE DU LOUP, QC

**TREMBLAY, GILLES**  
LAC ST JEAN, QC

**TRIPLE SEAL LTD**  
ETOBICOKE, ON

**1088590 ONTARIO LTD**  
PETERBOROUGH, ON

**1188308 ONTARIO INC.**  
MARKHAM, ON

**1199728 ONTARIO INC.**  
PORT STANLEY, ON

**1208248 ONTARIO INC.**  
BRAMPTON, ON

**1219825 ONTARIO LTD**  
ANCASTER, ON

**1238481 ONTARIO INC**  
ERIN, ON

**1244003 ONTARIO INC**  
KING CITY, ON

**3093-4459 QUEBEC INC**  
LA PLAINE, QC

**9025-6934 QUEBEC INC**  
HEBERTVILLE STN, QC

**9050-1180 QUEBEC INC**  
LASALLE, QC

**9050-7880 QUEBEC INC**  
DORION, QC

J. Greig Beatty  
Chef de Service  
Manager

## ONTARIO HIGHWAY TRANSPORT BOARD

## NOTICE

**Periodically, temporary applications are filed with the Board. Details of these applications can be made available at anytime to any interested parties by calling (416) 326-6732.**

The following are applications for extra-provincial and public vehicle operating licenses filed under the *Motor Vehicle Transport Act, 1987*, and the *Public Vehicles Act*. All information pertaining to the applicant i.e. business plan, supporting evidence, etc. is on file at the Board and is available upon request.

Any interested person who has an economic interest in the outcome of these applications may serve and file an objection within 29 days of this publication. The objector shall:

1. complete a Notice of Objection Form,
2. serve the applicant with the objection,
3. file a copy of the objection and provide proof of service of the objection on the applicant with the Board,
4. pay the appropriate fee.

Serving and filing an objection may be effected by hand delivery, mail, courier or facsimile. Serving means the date received by a party and filing means the date received by the Board.

**LES LIBELLÉS DES DEMANDES PUBLIÉES CI-DESSOUS SONT AUSSI DISPONIBLES EN FRANÇAIS SUR DEMANDE.**

**F & S Transportation, Inc. 45581**  
**37 S. Main St., Manchester, Pennsylvania 17345 U.S.A.**

Applies for an extra-provincial operating licence as follows:

For the transportation of passengers on a chartered trip from points in the United States of America as authorized by the relevant jurisdiction from the Ontario/U.S.A., Ontario/Québec and Ontario/Manitoba border crossings:

1. to points in Ontario; and
2. in transit through Ontario to the Ontario/Manitoba, Ontario/Québec, and Ontario/U.S.A. border crossings for furtherance

and for the return of the same passengers on the same chartered trip to point of origin.

PROVIDED THAT there be no pick-up or discharge of passengers except at point of origin.

**956367 Ontario Inc. 44734-C**  
**1175 Midland Ave. Kingston, Ont. K7P 2X8**

Applies for an amendment to public vehicle operating licence No. PV-4158 as follows:

**DELETE:**

PROVIDED that the licensee be restricted to the use of Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54, each having a maximum seating capacity of (18) passengers exclusive of the driver.

**SUBSTITUTE:**

PROVIDED that:

- 1) the licensee be restricted to the use of Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54;
- 2) the licensee be restricted to the use of (1) Class "A" public vehicle as defined in paragraph (a) (i) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54, being a VIP type vehicle equipped with couches, tables, a galley configuration including a microwave oven, washroom, TV and VCP, ice chest and hot liquid dispensers, and having a maximum seating capacity of (30) passengers exclusive of the driver.

SO THAT AS AMENDED THE LICENCE WILL READ AS FOLLOWS:

For the transportation of passengers on a chartered trip from points in the Counties of Frontenac, Lennox and Addington.

PROVIDED that:

- 1) the licensee be restricted to the use of Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54;
- 2) the licensee be restricted to the use of (1) Class "A" public vehicle as defined in paragraph (a) (i) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54, being a VIP type vehicle equipped with couches, tables, a galley configuration including a microwave oven, washroom, TV and VCP, ice chest and hot liquid dispensers, and having a maximum seating capacity of (30) passengers exclusive of the driver.

**NOTE: This replaces the terms advertized in The Ontario Gazette dated December 13, 1997**

**44734-D**

Applies for an extra-provincial operating licence as follows:

For the transportation of passengers on a chartered trip from points in the Counties of Frontenac and Lennox and Addington to the Ontario/Manitoba, Ontario/Québec and Ontario/U.S.A. border crossings for furtherance to points as authorized by the relevant jurisdiction and for the return of the same passengers on the same chartered trip to point of origin.

PROVIDED THAT:

- 1) the licensee be restricted to the use of Class "D" public vehicles as defined in paragraph (a) (iv) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54;
- 2) the licensee be restricted to the use of (1) Class "A" public vehicle as defined in paragraph (a) (i) of subsection 1 of Section 7 of Regulation 982 under the *Public Vehicles Act*, R.S.O. 1990 Chapter P.54, being a VIP type vehicle equipped with couches, tables, a galley configuration including a microwave oven, washroom, TV and VCP, ice chest and hot liquid dispensers, and having a maximum seating capacity of (30) passengers exclusive of the driver;
- 3) there shall be no pick-up or discharge of passengers except at point of origin.

Felix D'Mello  
 Board Secretary  
 Secrétaire de la Commission



## Government Notices Respecting Corporations Avis du gouvernement relatifs aux compagnies

### Certificates of Dissolution Certificats de dissolution

NOTICE IS HEREBY GIVEN that a certificate of dissolution under the *Business Corporations Act*, has been endorsed: The effective date precedes the corporation listings.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément à la *Loi sur les compagnies*, un certificat de dissolution a été inscrit pour les compagnies suivantes : la date d'entrée en vigueur précède la liste des compagnies visées.

Name of Corporation: Dénomination sociale de la compagnie :	Ontario Corporation Number Numero de la compagnie en Ontario
<b>1997-12-8</b>	
CASA NOBLE LIMITED .....	934439
L & H LEASING LIMITED .....	564644
646178 ONTARIO LIMITED .....	646178
660454 ONTARIO INC. ....	660454
778678 ONTARIO LIMITED .....	778678
1036114 ONTARIO INC. ....	1036114
<b>1997-12-9</b>	
BEYOND THE CONCEPT INC. ....	1087531
CANDO REAL ESTATE LTD. ....	379738
OVERSEAS LUMBER & PLYWOOD LTD. ....	332932
VALUE DESIGNS INC. ....	1101526
<b>1997-12-10</b>	
ALPHA DIVERSIFIED TRADING CO. LTD. ....	884939
CURSIVE ENTERPRISES INC. ....	1117681
LOREX PRODUCTS INCORPORATED .....	1083075
NORTHERN RESPONSE HOLDINGS, INC. ....	1227843
PATHFINDER CAREER SERVICES INC. ....	1083140
QVC CANADA HOLDINGS II LTD. ....	1209634
QVC CANADA HOLDINGS LTD. ....	1204010
SHARON BYRNE LTD. ....	1225598
<b>1997-12-11</b>	
GOODVALE INVESTMENT CO. LTD. ....	1122545
ISA VICTORIA INC. ....	858189
RHINE INVESTMENTS INC./INVESTISSEMENTS RHINE INC. ....	648223
<b>1997-12-12</b>	
ALCADAR INC. ....	1229428
BT (CANADA) HOLDINGS INC. ....	624925
WICKHILL INVESTMENTS LIMITED .....	214522
969493 ONTARIO INC. ....	969493

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

51/97

### Notice of Default in Complying with the Corporations Tax Act Avis d'inobservation de la loi sur les corporations

The Director has been notified by the Minister of Revenue that the following corporations are in default in complying with the *Corporations Tax Act*.

NOTICE IS HEREBY GIVEN under subsection 241 (1) of the *Business Corporations Act*, that unless the corporations listed hereunder comply with the requirements of the *Corporations Tax Act* within 90 days of this notice, orders will be made dissolving the defaulting corporations. All enquiries concerning this notice are to be directed to Corporations Tax Branch, Ministry of Revenue, 33 King Street West Oshawa, Ontario, L1H 8H6.

Le ministre du Revenu a informé l'administrateur unique que les compagnies suivantes n'avaient pas respecté la *Loi sur l'imposition des personnes morales*.

AVIS EST DONNÉ PAR LA PRÉSENTE que, conformément au paragraphe 241 (1) de la *Loi sur les compagnies*, si les compagnies citées ci-dessous ne se conforment pas aux prescriptions énoncées par la *Loi sur l'imposition des personnes morales* dans un délai de 90 jours suivant la réception du présent avis, lesdites compagnies se verront dissoutes par décision. Pour tout renseignement relatif au présent avis, veuillez vous adresser à la Direction de l'imposition des compagnies, ministère du Revenu, 33, rue King ouest, Oshawa (Ontario) L1H 8H6.

Name of Corporation: Dénomination sociale de la compagnie :	Ontario Corporation Number Numero de la compagnie en Ontario
CEDAR COVE DEVELOPMENTS LIMITED .....	814107
WANDLE REALTY LIMITED .....	265239

52/97

CAROL D. KIRSH,  
Director, Companies Branch  
Directrice, Direction des compagnies

### Applications to Provincial Parliament — Private Bills Demandes au Parlement provincial — Projets de loi d'intérêt privé

#### PUBLIC NOTICE

The rules of procedure and the fees and costs related to applications for Private Bills are set out in the Standing Orders of the Legislative Assembly. Copies of the Standing Orders may be obtained from:

Committees Branch  
Room 1405, Whitney Block, Queen's Park  
Toronto, Ontario M7A 1A2

Telephone: 416/325-3500 (Collect calls will be accepted.)

Applicants should note that consideration of applications for Private Bills that are received after the first day of September in any calendar year may be postponed until the first regular Session in the next following calendar year.

CLAUDE L. DESROSIERS,  
Clerk of the Legislative Assembly.

(8699) T.F.N.

## Corporation Notices Avis relatifs aux compagnies

### THE AGORAPHOBIA AND PANIC VOLUNTEER ASSOCIATION Ontario Corporation Number 001237232

NOTICE IS HEREBY GIVEN that the number of Directors of the Agoraphobia and Panic Volunteer Association was increased from 7 to 9 by a Special Resolution which was confirmed by the members of the Corporation on the 24th day of November, 1997.

Dated this 25th day of November, 1997.

(9527) 52

DAWN CARSON,  
Secretary.  
CHERYL DRISKELL,  
Executive Director.

### HANAGAN HOLDINGS LIMITED

TAKE NOTICE that the shareholders of Hanagan Holdings Limited at a special meeting duly called for the purpose and held on the 8th day of December, 1997, passed a Special Resolution requiring the Corporation to be wound up voluntarily under the provisions of the *Business Corporations Act*, and appointing David W. Edgecombe and Beverley A. Edgecombe of 1605 Sunview Drive, Orleans, Ontario K1C 5B9, as liquidators.

AND FURTHER TAKE NOTICE that if you have any claim against the Corporation, proof of claim must be filed with the liquidator within thirty days of the date of this notice, after which time the property of the above Corporation will be distributed among the persons entitled thereto, having regard to the claims of which the liquidator then has notice.

Dated at Toronto, this 10th day of December, 1997.

(9528) 52

DAVID W. EDGECOMBE,  
BEVERLEY A. EDGECOMBE,  
1605 Sunview Drive,  
Orleans, Ontario  
K1C 5B9

### ONTARIO REAL ESTATE ASSOCIATION Ontario Corporation Number 000021641

NOTICE IS HEREBY GIVEN that the number of directors of Ontario Real Estate Association was decreased from 19 to 16 by a Special Resolution which was confirmed by the members of the Corporation on the 27th day of February, 1997.

Dated this 12th day of December, 1997.

(9529) 52

DON RICHARDSON,  
Executive Director.

### HOME CARE PROGRAM FOR METROPOLITAN TORONTO

NOTICE IS HEREBY GIVEN that Home Care Program for Metropolitan Toronto intends to surrender its charter pursuant to the *Corporations Act*.

Dated at Toronto, this 12th day of December, 1997.

(9530) 52

GARY CHATFIELD,  
President.

### WRIGHT TRANSPORTATION SERVICES INC. Ontario Corporation Number 1205635

TAKE NOTICE CONCERNING WINDING UP of Wright Transportation Services Inc., Date of Incorporation: October 22, 1996, Liquidator: Richard Nelson Wright, R.R. #7, Guelph, Ontario N1H 6J4. Date Appointed: October 30, 1997.

This notice is filed under subsection 205 (2) of the *Business Corporations Act*. A Meeting of the shareholders of the Corporation pursuant to subsection 205 (1) of the Act was held on November 30, 1997.

Pursuant to subsection 205 (3) of the *Business Corporations Act*, on the expiration of three months after the date of filing this notice, the Corporation is dissolved.

Dated this 2nd day of December, 1997.

(9531) 52

RICHARD NELSON WRIGHT,  
President.  
I have the authority to bind  
the Corporation.

### BLUE WATER TRUCK CENTRE (1991) INC. Ontario Corporation Number 941805

TAKE NOTICE CONCERNING WINDING UP of Blue Water Truck Centre (1991) Inc., Date of Incorporation: May 9, 1991, Liquidator: Richard Nelson Wright, R.R. #7, Guelph, Ontario N1H 6J4. Date Appointed: November 1, 1997.

This notice is filed under subsection 205 (2) of the *Business Corporations Act*. A Meeting of the shareholders of the Corporation pursuant to subsection 205 (1) of the Act was held on December 1, 1997.

Pursuant to subsection 205 (3) of the *Business Corporations Act*, on the expiration of three months after the date of filing this notice, the Corporation is dissolved.

Dated this 2nd day of December, 1997.

(9532) 52

RICHARD NELSON WRIGHT,  
President.  
I have the authority to bind  
the Corporation.

### LYKOS LIMITED

NOTICE IS HEREBY GIVEN that Lykos Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 12th day of December, 1997.

(9533) 52

ANDREAS HARALAMPIDES,  
Secretary.

### WORLD MASTERS WEIGHTLIFTING CHAMPIONSHIPS 1996 (COLLINGWOOD)

NOTICE IS HEREBY GIVEN that World Masters Weightlifting Championships 1996 (Collingwood) intends to surrender its charter/terminate its corporate existence pursuant to Section 319 of the *Corporations Act*, R.S.O., 1990, Ch. C-38.

Dated this 11th day of December, 1997.

(9534) 52

MARYANNE SCUDDER,  
Secretary.

### JOHN HOWARD SOCIETY OF THUNDER BAY AND DISTRICT

NOTICE IS HEREBY GIVEN that the number of Directors of John Howard Society of Thunder Bay and District was increased from 9 to 11 by a Special Resolution which was confirmed by the members of the Corporation on the 14th day of January, 1997.

Dated this 5th day of December, 1997.

(9535) 52

SOPHIA TUYL,  
President.

### HARBOURFRONT FOUNDATION

NOTICE IS HEREBY GIVEN that the number of Directors of Harbourfront Foundation was increased from 3 to 7 which was confirmed by



the members of the Corporation on the 23rd day of May, 1997. Also the quorum for the transaction of business shall be 4.

Dated this 10th day of November, 1997.

(9536) 52

WILLIAM BOYLE,  
Secretary.

#### **EZ LOADER (CANADA) LTD.**

TAKE NOTICE that the shareholders of EZ Loader (Canada) Ltd. ("the Corporation") passed a Special Resolution, dated the 15th day of December, 1997, requiring the Corporation to be wound up voluntarily under the provisions of the *Business Corporations Act*, and appointing Jack Hurst as liquidator.

AND FURTHER TAKE NOTICE that if you have any claim against the Corporation, proof of claim must be filed with the liquidator within thirty (30) days of the date of this notice, after which time the property of the above Corporation will be distributed among the persons entitled thereto, having regard to the claims of which the liquidator then has notice.

Dated at Toronto, this 15th day of December, 1997.

(9537) 52

JACK HURST,  
Liquidator,  
c/o BDO Dunwoody,  
4255 Sherwoodtowne Blvd,  
Mississauga, Ontario  
L4Z 1Y5

#### **EZ LOADER (CANADA) LTD.**

TAKE NOTICE that in connection with the voluntary windup of EZ Loader (Canada) Ltd. ("the Corporation"), and, pursuant to Section 205 of the *Business Corporations Act*, the Final Special Resolution of the shareholders of the Corporation was passed on the 16th day of December, 1997 approving the account of the liquidator.

FURTHER TAKE NOTICE that pursuant to subsection (3) of Section 205 of the *Business Corporations Act*, on the expiration of three (3) months after the date of filing the notice, the Corporation is dissolved.

Dated at Toronto, this 16th day of December, 1997.

(9538) 52

JACK HURST,  
Liquidator,  
c/o BDO Dunwoody,  
4255 Sherwoodtowne Blvd,  
Mississauga, Ontario  
L4Z 1Y5

#### **1020068 ONTARIO INC.**

TAKE NOTICE that the shareholders of 1020068 Ontario Inc. ("the Corporation") passed a Special Resolution, dated the 15th day of December, 1997, requiring the Corporation to be wound up voluntarily under the provisions of the *Business Corporations Act*, and appointing Jack Hurst as liquidator.

AND FURTHER TAKE NOTICE that if you have any claim against the Corporation, proof of claim must be filed with the liquidator within thirty (30) days of the date of this notice, after which time the property of the above Corporation will be distributed among the persons entitled thereto, having regard to the claims of which the liquidator then has notice.

Dated at Toronto, this 15th day of December, 1997.

(9539) 52

JACK HURST,  
Liquidator,  
c/o BDO Dunwoody,  
4255 Sherwoodtowne Blvd,  
Mississauga, Ontario  
L4Z 1Y5

#### **1020068 ONTARIO INC.**

TAKE NOTICE that in connection with the voluntary windup of 1020068 Ontario Inc. ("the Corporation"), and, pursuant to Section 205 of the *Business Corporations Act*, the Final Special Resolution of the shareholders of the Corporation was passed on the 16th day of December, 1997 approving the account of the liquidator.

FURTHER TAKE NOTICE that pursuant to subsection (3) of Section 205 of the *Business Corporations Act*, on the expiration of three (3) months after the date of filing the notice, the Corporation is dissolved.

Dated at Toronto, this 16th day of December, 1997.

(9540) 52

JACK HURST,  
Liquidator,  
c/o BDO Dunwoody,  
4255 Sherwoodtowne Blvd,  
Mississauga, Ontario  
L4Z 1Y5

#### **BUCCANEER YACHT CLUB & MARINA INC.**

TAKE NOTICE that the shareholders of Buccaneer Yacht Club & Marina Inc. ("the Corporation") passed a Special Resolution, dated the 15th day of December, 1997, requiring the Corporation to be wound up voluntarily under the provisions of the *Business Corporations Act*, and appointing Jack Hurst as liquidators.

AND FURTHER TAKE NOTICE that if you have any claim against the Corporation, proof of claim must be filed with the liquidator within thirty (30) days of the date of this notice, after which time the property of the above Corporation will be distributed among the persons entitled thereto, having regard to the claims of which the liquidator then has notice.

Dated at Toronto, this 15th day of December, 1997.

(9541) 52

JACK HURST,  
Liquidator,  
c/o BDO Dunwoody,  
4255 Sherwoodtowne Blvd,  
Mississauga, Ontario  
L4Z 1Y5

#### **BUCCANEER YACHT CLUB & MARINA INC.**

TAKE NOTICE that in connection with the voluntary windup of Buccaneer Yacht Club & Marina Inc. ("the Corporation"), and, pursuant to Section 205 of the *Business Corporations Act*, the Final Special Resolution of the shareholders of the Corporation was passed on the 16th day of December, 1997 approving the account of the liquidator.

FURTHER TAKE NOTICE that pursuant to subsection (3) of Section 205 of the *Business Corporations Act*, on the expiration of three (3) months after the date of filing the notice, the Corporation is dissolved.

Dated at Toronto, this 16th day of December, 1997.

(9542) 52

JACK HURST,  
Liquidator,  
c/o BDO Dunwoody,  
4255 Sherwoodtowne Blvd,  
Mississauga, Ontario  
L4Z 1Y5

#### **654986 ONTARIO LIMITED**

TAKE NOTICE that the shareholders of 654986 Ontario Limited ("the Corporation") passed a Special Resolution, dated the 15th day of December, 1997, requiring the Corporation to be wound up voluntarily under the provisions of the *Business Corporations Act*, and appointing Jack Hurst as liquidator.

AND FURTHER TAKE NOTICE that if you have any claim against the Corporation, proof of claim must be filed with the liquidator within thirty (30) days of the date of this notice, after which time the property



of the above Corporation will be distributed among the persons entitled thereto, having regard to the claims of which the liquidator then has notice.

Dated at Toronto, this 15th day of December, 1997.

JACK HURST,  
Liquidator,  
c/o BDO Dunwoody,  
4255 Sherwoodtowne Blvd,  
Mississauga, Ontario  
L4Z 1Y5

(9543) 52

#### 654986 ONTARIO LIMITED

TAKE NOTICE that in connection with the voluntary windup of 654986 Ontario Limited ("the Corporation"), and, pursuant to Section 205 of the *Business Corporations Act*, the Final Special Resolution of the shareholders of the Corporation was passed on the 16th day of December, 1997 approving the account of the liquidator.

FURTHER TAKE NOTICE that pursuant to subsection (3) of Section 205 of the *Business Corporations Act*, on the expiration of three (3) months after the date of filing the notice, the Corporation is dissolved.

Dated at Toronto, this 16th day of December, 1997.

JACK HURST,  
Liquidator,  
c/o BDO Dunwoody,  
4255 Sherwoodtowne Blvd,  
Mississauga, Ontario  
L4Z 1Y5

(9544) 52

#### BELL ST. CAFE INC.

NOTICE IS HEREBY GIVEN that Bell St. Cafe Inc. intends to dissolve pursuant to the *Business Corporations Act*.

Dated at Burlington, this 9th day of December, 1997.

BRIAN WARNER,  
President.

(9545) 52

#### RESPIRON LTD.

NOTICE IS HEREBY GIVEN that Respirom Ltd. intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 16th day of December, 1997.

BRUCE M. PERRAULT,  
Secretary.

(9546) 52

#### VINEYARD VILLAGE NON-PROFIT HOMES OF STRATFORD

NOTICE IS HEREBY GIVEN that the number of Directors of Vineyard Village Non-Profit Homes of Stratford is decreased from ten to eight.

Dated at Stratford, this 26th day of November, 1997.

JUDITH TRUDGEON,  
Secretary.

(9548) 52

#### THOMAS ENVIRONMENTAL MANAGEMENT LIMITED

NOTICE IS HEREBY GIVEN that Thomas Environmental Management Limited intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 17th day of December, 1997.

COLIN SOULE,  
Corporate Secretary.

(9549) 52

#### CORUNDOL ENVIRONMENTAL LTD.

NOTICE IS HEREBY GIVEN that Corundol Environmental Ltd. intends to dissolve pursuant to the *Business Corporations Act*.

Dated this 17th day of December, 1997.

(9550) 52

COLIN SOULE,  
Corporate Secretary.

### Notice to Creditors Avis aux créanciers

#### NOTICE TO CREDITORS AND OTHERS

All claims against the Estate of Gino Di Berardino, late of the City of North York, who died on April 21, 1997, must be filed with the undersigned Estate Trustees on or before January 30, 1998, thereafter the Estate will be distributed having regard to claims then filed. The undersigned will not be liable to any person of whose claim they shall not then have notice.

Dated at City of York, this 24th day of November, 1997.

ANTONIO DI BERARDINO AND  
MARIA DI BERARDINO,  
Estate Trustees With a Will,  
by their solicitor  
VICTOR E. RUDINSKAS,  
27 John Street, Second Floor,  
Weston, Ontario  
M9N 1J4.

(9521) 51-52-1

### Miscellaneous Notices Avis divers

#### PRIMUM INSURANCE COMPANY/PRIMUM COMPAGNIE D'ASSURANCE

NOTICE IS HEREBY GIVEN that Primum Insurance Company/Primum compagnie d'assurance will make an application to the Commissioner of Insurance for Ontario pursuant to the *Insurance Act* authorizing Primum Insurance Company/Primum compagnie d'assurance to carry on within Ontario the business of automobile insurance, liability insurance and property insurance.

Dated at Toronto, this 4th day of December, 1997.

Robert W. McDowell,  
FASKEN CAMPBELL GODFREY,  
Barristers and Solicitors,  
Box 20, Suite 4200,  
Toronto Dominion Bank Tower,  
Toronto-Dominion Centre,  
Toronto, Ontario  
M5K 1N6.

(9500) 50-52

**Sales of Lands for Tax Arrears  
by Public Tender  
Ventes de terrains par appel d'offres  
pour arriéré d'impôt**

**ERRATUM**

**CORPORATION OF THE CITY OF SARNIA**

**NOTICE**

Vide Ontario Gazette, Vol. 130-48, Page 2225, dated November 29th, 1997.

**RE: 2071 GLADYS STREET, BRIGHT'S GROVE**

**PROPOSED SALE OF LAND BY PUBLIC TENDER**

The sale of the above described Land by Public Tender has been cancelled.

Dated this 10th day of December, 1997.

TREASURER,  
Corporation of the  
City of Sarnia,  
255 North Christina Street,  
Sarnia, Ontario,  
N7T 5V4

(9547) 52

# Publications under the Regulations Act Publications en vertu de la Loi sur les règlements

1997—12—27

**ONTARIO REGULATION 451/97**

made under the

**FAIRNESS FOR PARENTS AND EMPLOYEES ACT  
(TEACHERS' WITHDRAWAL OF SERVICES), 1997**

Made: December 8, 1997

Filed: December 9, 1997

**APPLICATION DEADLINE**

1. The deadline for the purposes of subsections 3 (5) and (10) of the Act is January 16, 1998.

DAVID J. JOHNSON

*Minister of Education and Training*

Dated on December 8, 1997.

52/97

**RÈGLEMENT DE L'ONTARIO 451/97**

pris en application de la

**LOI DE 1997 SUR LE TRAITEMENT ÉQUITABLE  
DES PARENTS ET DES EMPLOYÉS  
(RETRAIT DE SERVICES PAR LES ENSEIGNANTS)**

pris le 8 décembre 1997

déposé le 9 décembre 1997

**DATE LIMITE DE PRÉSENTATION  
DES DEMANDES**

1. Pour l'application des paragraphes 3 (5) et (10) de la Loi, la date limite est fixée au 16 janvier 1998.

DAVID J. JOHNSON

*Ministre de l'Éducation et de la Formation*

Fait le 8 décembre 1997.

**ONTARIO REGULATION 452/97**  
made under the  
**WORKERS' COMPENSATION ACT**

Made: December 3, 1997

Approved: December 10, 1997

Filed: December 11, 1997

Amending O. Reg. 715/94  
(Retirement Benefits)

Note: Ontario Regulation 715/94 has not previously been amended.

1. (1) Subclause (b) (iii) of the definition of "spousal partner" in subsection 1 (1) of Ontario Regulation 715/94 is revoked and the following substituted:

(iii) have together entered into a cohabitation agreement under section 53 of the *Family Law Act* or a successor to that section.

(2) Subsection 1 (2) of the Regulation is revoked and the following substituted:

(2) The relevant date for determining whether a worker has a spousal partner and for determining the identity of the spousal partner is the date the worker reaches 65 years of age.

2. Section 5 of the Regulation is revoked.

3. Subsection 6 (5) of the Regulation is revoked and the following substituted:

(5) Where a worker who has made an election under this section dies leaving a spousal partner entitled to a survivor annuity, the amount of the payments to the survivor shall be indexed in the same manner as were the payments to the worker and, for that purpose, the amount of the first payment to the spousal partner shall be determined by applying the percentage determined under subsection 3 (5) to the last payment paid to the worker.

4. Subsection 7 (7) of the Regulation is revoked and the following substituted:

(7) To be effective, an election under subsection (6) must be in writing, must be signed by the spouse and must be delivered to the Board within 90 days after the Board notifies the spouse of his or her right to make an election under subsection (6).

5. Section 8 of the Regulation is revoked.

6. This Regulation comes into force on December 31, 1997.

WORKERS' COMPENSATION BOARD:

GLEN WRIGHT  
*Chair*LINDA ANGOVE  
*Secretary*

Dated on December 3, 1997.

52/97



**ONTARIO REGULATION 453/97**  
made under the  
**WORKPLACE SAFETY AND INSURANCE ACT, 1997**

Made: December 3, 1997

Approved: December 10, 1997

Filed: December 11, 1997

Revoking O. Reg. 715/94  
(Retirement Benefits)

**1. (1) Ontario Regulations 715/94 and 452/97 are revoked.**

**(2) For greater certainty, the revocation of Ontario Regulation 715/94 does not affect its application under section 102 of the Act.**

**2. This Regulation comes into force on January 1, 1998.**

**2. Ontario Regulation 753/91, as it reads immediately before this Regulation comes into force, continues to apply with respect to rights and benefits accrued or vested under the pension plan before December 31, 1997.**

WORKERS' COMPENSATION BOARD:

GLEN WRIGHT  
*Chair*

LINDA ANGOVE  
*Secretary*

Dated on December 3, 1997.

52/97

WORKERS' COMPENSATION BOARD:

GLEN WRIGHT  
*Chair*

LINDA ANGOVE  
*Secretary*

Dated on December 3, 1997.

52/97

**ONTARIO REGULATION 454/97**  
made under the  
**WORKERS' COMPENSATION ACT**

Made: December 3, 1997

Approved: December 10, 1997

Filed: December 11, 1997

Amending O. Reg. 753/91  
(Pension Benefits for Board Members and Employees)

**Note:** Ontario Regulation 753/91 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Clause 22 (2) (b) of Ontario Regulation 753/91 is revoked and the following substituted:**

(b) the last day of,

(i) the year in which the person reaches 71 years of age, if the person was born before 1927,

(ii) 1997, if the person was born in 1927, or

(iii) the year in which the person reaches 69 years of age, if the person was born after 1927.

**ONTARIO REGULATION 455/97**  
made under the  
**WORKPLACE SAFETY AND INSURANCE ACT, 1997**

Made: December 3, 1997

Approved: December 10, 1997

Filed: December 11, 1997

**PENSION PLAN FOR BOARD EMPLOYEES**

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## PART I INTERPRETATION

### DEFINITIONS

#### 1. In this Regulation,

“actuary” means a Fellow of the Canadian Institute of Actuaries appointed by the Board as actuary of the pension plan;

“commuted value” has the same meaning as in the Pension Benefits Act;

“deferred pension” has the same meaning as in the Pension Benefits Act;

“employee” means an employee of the Board;

“former member” means a former member as determined under section 10;

“long-term disability plan” means a benefit plan provided by the Board to its employees to provide income protection in case of a long-term disability;

“member” means member of the pension plan;

“normal retirement date” means the normal retirement date determined under section 23;

“normal retirement pension” means the amount of the annual pension calculated under section 27;

“pension” means a pension benefit that is being paid under the pension plan;

“pension fund” means the fund maintained to provide benefits under the pension plan;

“pension plan” means the Workplace Safety and Insurance Board Employees’ Pension Plan;

“pensionable service”, in relation to a person, means the period of years, or partial years, of membership in the pension plan that the person has accumulated;

“spouse” means either of a man and woman who,

(a) are married to each other, or

(b) are not married to each other and are living together in a conjugal relationship,

(i) continuously for a period of not less than three years, or

(ii) in a relationship of some permanence, if they are the natural or adoptive parents of a child, both as defined in the *Family Law Act*;

“Year’s Basic Exemption”, in relation to a year, means the Year’s Basic Exemption established under the Canada Pension Plan for the year;

“Year’s Maximum Pensionable Earnings”, in relation to a year, means the Year’s Maximum Pensionable Earnings established under the Canada Pension Plan for the year.

2. (1) For the purposes of this Regulation, a person’s child by adoption or step-child or a child to whom the person is acting in the role of parent is considered to be the person’s child.

(2) A child is considered to be a dependent child of a former member who is deceased if the child was dependent on him or her for support immediately before the former member’s death and if the child,

(a) is less than 18 years of age;

(b) is eighteen or more years of age but less than 25 years of age and is attending a school or university full-time, having so attended substantially without interruption since reaching 18 years of age or since the death of the former member, whichever occurred most recently; or

(c) is 18 or more years of age and suffers from a physical or mental impairment that prevents the child from earning a living and has suffered from the impairment without interruption since reaching 18 years of age or since the death of the former member, whichever occurred most recently.

3. (1) For the purposes of this Regulation, a full-time member of the board of directors of the Board is deemed to be an employee of the Board.

(2) For the purposes of this Regulation, a person continues to be an employee while the Board is making contributions respecting the person under section 25 of the Act.

(3) Subject to subsection (4), any period during which a member is absent from work on a leave of absence or solely because of a lay-off, strike or lockout at the Board shall not be included in the calculation of the length of the member’s period of continuous employment, membership or service.

(4) Any period during which a member was absent from work on a pregnancy or parental leave of absence under the *Employment Standards Act* shall be included in the calculation of the length of the member’s period of continuous employment, membership or service.

4. (1) For the purposes of this Regulation, the earnings of a member are the basic amount of remuneration that the member actually receives for his or her position, computed with reference to the period of time during which the member is employed. The earnings do not include overtime pay or a payment to the member in lieu of a benefit provided by the Board.

(2) A member’s earnings include the amount of any payments under the insurance plan for loss of earnings received by the member and the amount of any supplement by the Board up to the maximum amount of the member’s regular earnings. The earnings do not include retirement benefits provided to the member under section 45 of the Act or section 44 of the *Workers’ Compensation Act*, as it read before January 1, 1998.

(3) A member’s earnings include the amount of any pregnancy or parental benefits under the *Employment Insurance Act (Canada)* received by the member and the amount of any supplement by the Board up to the maximum amount of the member’s regular earnings.

(4) The annual earnings of a member who is receiving long-term disability benefits in a year are the amount that the member was earning on the date that he or she qualified for the benefits, as increased in accordance with subsection 14 (3).

5. The commuted value of a pension calculated under this Regulation is subject to the following:

1. The commuted value shall be based on assumptions that are reasonable and, where applicable, are acceptable under the *Income Tax Act (Canada)* and the regulations under that Act.

2. The commuted value shall be calculated in accordance with generally accepted actuarial principles.
3. The calculation of the commuted value is subject to subsection 52 (1) of the *Pension Benefits Act*.
4. In relation to employment before January 1, 1987, the sex of a member shall not be taken into account in the calculation of the commuted value that a former member may require the administrator to pay under subsection 42 (1) of the *Pension Benefits Act*.

#### CALCULATION OF INTEREST

6. Interest calculated under this Regulation is accumulated with interest compounded annually at the minimum rate determined under the *Pension Benefits Act* or at such higher rate as is reasonable and as the Board may determine.

### PART II MEMBERSHIP AND CONTRIBUTIONS

#### MEMBERSHIP IN THE PENSION PLAN

7. (1) Every permanent or probationary employee is a member of the pension plan beginning on the later of,

- (a) his or her date of employment; or
- (b) the date, if any, on which the employee ceases to be ineligible to be a member under subsection (2).

(2) On an employee's date of employment, the employee is not eligible to become a member of the plan if, over a period of one year at his or her normal working hours, the employee would earn less than 35 per cent of the Year's Maximum Pensionable Earnings and would work fewer than 700 hours.

8. (1) A temporary employee may elect to become a member of the pension plan after 24 months of continuous employment.

(2) A person is considered to be a temporary employee if he or she is employed to do work of a temporary nature to be performed on a regular scheduled basis during a limited period of employment.

(3) A person who is hired under a fixed-term contract of service is not eligible to be a member of the pension plan.

9. (1) An employee does not cease to be a member of the pension plan by reason only of a change in his or her employment category.

(2) An employee does not cease to be a member of the pension plan by reason only that he or she earns less than 35 per cent of the Year's Maximum Pensionable Earnings in a year or is employed for fewer than 700 hours in a year.

10. (1) A member of the pension plan becomes a former member upon terminating his or her employment with the Board.

(2) A member of the pension plan becomes a former member upon reaching the maximum age specified under the *Income Tax Act* (Canada) for contributors to a pension fund or plan.

(3) A former member of the pension plan who becomes re-employed by the Board as a permanent or probationary employee is reinstated as a member.

(4) A person's employment is considered to be terminated by his or her resignation, dismissal with or without just cause, retirement or death.

(5) A person is not considered to be a member or a former member of the pension plan if he or she,

- (a) is not entitled to a deferred pension under the plan;
- (b) is not receiving a pension under the plan; and
- (c) is not entitled to receive another payment under the plan.

#### CONTRIBUTIONS UNDER THE PENSION PLAN

11. (1) Every member shall contribute to the pension fund from his or her earnings for a year,

- (a) 7 per cent of the amount of his or her earnings that does not exceed the Year's Basic Exemption;
- (b) subject to subsection (4), 5.2 per cent of the amount of his or her earnings that exceeds the Year's Basic Exemption but does not exceed the Year's Maximum Pensionable Earnings; and
- (c) subject to subsection (2), 7 per cent of the amount of his or her earnings that exceeds the Year's Maximum Pensionable Earnings.

(2) The member shall not contribute an amount under subsection (1) greater than the maximum permissible contribution determined under subsection 8503 (4) of the *Income Tax Regulations* (Canada).

(3) For the purposes of subsection (1), the member's earnings for a year shall be deemed to exclude the amount, if any, that exceeds the amount calculated using the formula,

$$50 \times (A + B)$$

in which,

"A" equals 0.7 per cent of the Year's Maximum Pensionable Earnings; and

"B" equals \$1,722.22 adjusted by the ratio described in subsection 27 (8).

(4) If a member continues to be employed by the Board after his or her normal retirement date and is receiving a retirement pension under the *Canada Pension Plan*, the amount the member shall contribute under clause (1) (b) is 7 per cent of the amount of his or her earnings that exceeds the Year's Basic Exemption but does not exceed the Year's Maximum Pensionable Earnings.

(5) The member's contributions are to be deducted from his or her earnings for each pay period and remitted to the pension fund by the Board.

(6) Despite subsections (1) and (5), from January 1, 1998 to December 31, 1998, both inclusive, member contributions under subsection (1) shall be suspended and no deductions shall be made from a member's earnings under subsection (5) during that period.

12. (1) The Board shall contribute to the pension fund such amounts as are necessary to pay the cost of pension benefits and ancillary benefits under the pension plan.

(2) The amount of the Board's contributions shall be determined on the basis of valuations made by the actuary and approved by the Board.

(3) Subject to subsection 16 (2), the Board's contribution in a month shall not be less than the minimum amount, as determined by the actuary, that is required under the *Pension Benefits Act* to pay the normal cost of the pension plan and liquidate any going concern unfunded liabilities or solvency deficiencies.



## PENSIONABLE SERVICE

13. (1) A member accrues pensionable service under the pension plan for the time in respect of which contributions to the pension fund are made by or on behalf of the member.

(2) A member who continues to be employed by the Board after his or her normal retirement date continues to accumulate pensionable service for contributions under the plan for the period of employment after the normal retirement date.

(3) A former member who becomes re-employed by the Board accumulates pensionable service for contributions under the plan for the period of re-employment.

14. (1) This section applies with respect to a member who,

(a) is suffering from a physical or mental impairment that prevents the member from performing the duties of the employment in which he or she was engaged before the commencement of the impairment; and

(b) is receiving benefits under the long-term disability plan as a result of an impairment incurred on or after October 1, 1974.

(2) During the period that the member is receiving benefits under the long-term disability plan and remains an employee of the Board, the Board shall make both the Board and the member contributions to the pension plan.

(3) For the purposes of this Regulation, the member's earnings shall be deemed to be increased each year in accordance with the following rules:

1. The earnings are increased as of January 1 each year, beginning when the member begins to receive benefits under the long-term disability plan and ending when payment of the member's pension under the plan begins. However, no increase shall be made in respect of a period before January 1, 1992.
2. The earnings are increased in accordance with the indexing factor described in paragraphs 4, 5 and 6 for the year.
3. Despite paragraph 2, the increased earnings for a year cannot exceed the maximum amount determined under paragraph 7.
4. The indexing factor for a year is 75 per cent of the percentage change in the Consumer Price Index for Canada for all items, for the twelve-month period ending October 31 of the previous year, as published by Statistics Canada. If the change in the Consumer Price Index is negative the indexing factor is zero.
5. If the indexing factor for a year is greater than 8 per cent, it is deemed to be 8 per cent.
6. If the indexing factor for a year is greater than 8 per cent, the amount by which it exceeds 8 per cent is carried forward and added to the indexing factor for one or more subsequent years until the subsequent indexing factor is increased to 8 per cent.
7. The maximum amount of increased earnings for a year is calculated using the formula " $A \times B/C$ " in which,

"A" equals the person's earnings when he or she qualified for benefits under the long-term disability plan,

"B" equals the average wage as defined in subsection 147.1 (1) of the *Income Tax Act* (Canada) for the year, and

"C" equals the average wage for the year in which the person qualified for benefits under the long-term disability plan.

## REFUND OF CONTRIBUTIONS

15. (1) A former member who is entitled to a pension benefit is entitled to be paid from the pension fund a lump sum equal to the amount by which his or her contributions made on or after the January 1, 1987, with interest, exceed one-half of the commuted value of his or her pension or deferred pension in respect of the contributory benefits accrued after that date.

(2) In determining the commuted value of the pension or deferred pension under subsection (1), money or credits transferred from the pension plan to another pension plan are excluded.

(3) The following are included in determining the contributory benefits under subsection (1):

1. Ancillary benefits related to employment on or after January 1, 1987.
2. Increases to pension benefits and ancillary benefits resulting from an amendment to the pension plan made on or after January 1, 1987, relating to employment before the date of the amendment, but excluding any portion of the benefits which is based upon pensionable service before the January 1, 1987.

## USE OF SURPLUS

16. (1) This section provides for the use of an amount in the pension fund that is surplus to the requirements of the pension plan while it continues in existence or upon its winding up.

(2) The surplus shall be applied to reduce the contributions of the Board under the pension plan in a month to an amount not greater than the maximum contribution that is an eligible contribution under subsection 147.2 (2) of the *Income Tax Act* (Canada) and may be applied to further reduce the contributions of the Board if such maximum is greater than zero.

(3) The surplus may be applied to enhance the benefits provided to members and former members to the extent permitted under the *Income Tax Act* (Canada).

### PART III TERMINATION OF EMPLOYMENT OTHER THAN BY RETIREMENT OR DEATH

17. A person who ceases to be a member of the pension plan before completing 24 months of continuing membership shall be given a refund of his or her contributions to the pension fund, with interest, in lieu of other benefits under the plan.

18. (1) A person who ceases to be a member of the pension plan after a continuous period of 24 months of membership but before completing 10 years of membership is entitled to the pension and the payment described in this section.

(2) The person is entitled to a deferred pension with respect to his or her pensionable service after December 31, 1986.

(3) The person is entitled to a lump sum payment equal to his or her contributions made before January 1, 1987, with interest.

19. (1) A person who ceases to be a member of the pension plan after completing 10 years of membership but before reaching 45 years of age is entitled to the pension and the payment described in this section.

(2) The person is entitled to a deferred pension with respect to his or her pensionable service after December 31, 1986.

(3) The person may elect to receive either,

(a) a deferred pension with respect to his or her pensionable service accrued before January 1, 1987; or

(b) a lump sum payment equal to his or her contributions made before January 1, 1987, with interest.

20. (1) A person who ceases to be a member of the pension plan after completing 10 years of membership and who is at least 45 years of age when he or she ceases to be a member is entitled to the pension and the payment described in this section.

(2) The person is entitled to a deferred pension based upon all of his or her pensionable service.

(3) Despite subsection (2), with respect to the portion of the person's deferred pension that is based on pensionable service accrued before January 1, 1987, the person may elect to receive 75 per cent of its commuted value in the form of a deferred pension and 25 per cent in the form of a lump sum payment.

21. (1) This section applies if the pension otherwise payable under the pension plan to a former member at the normal retirement date is 2 per cent or less of the Year's Maximum Pensionable Earnings in the year in which the person becomes a former member.

(2) The former member is entitled to be paid the commuted value of his or her benefits under the pension plan in lieu of receiving those benefits.

22. A person entitled to make an election under this Part who does not do so within 90 days after being notified by the Board of his or her option to make the election is deemed to have elected,

(a) to receive a deferred pension payable on his or her normal retirement date, if he or she is entitled to such a deferred pension; or

(b) to a refund of contributions, with interest, if he or she is not entitled to receive a deferred pension.

#### PART IV PENSIONS

##### RETIREMENT

23. A person's normal retirement date is the first day of the month following the month in which the person reaches 65 years of age.

##### ENTITLEMENT TO A NORMAL RETIREMENT PENSION

24. (1) A normal retirement pension begins on the person's normal retirement date.

(2) A person who remains an employee of the Board after the normal retirement date shall begin to receive payment of a retirement pension under the pension plan on the date that is the earlier of,

(a) the first day of the month following the date on which the person terminates employment with the Board; or

(b) the last day of the year in which the person reaches 69 years of age.

25. (1) A person is not entitled to receive more than one retirement pension under the pension plan in respect of the same period of pensionable service.

(2) A person receiving a disability pension under the pension plan is not eligible to receive a retirement pension.

26. (1) A former member receiving a pension under the pension plan who becomes re-employed by the Board as a permanent or probationary employee is not entitled to receive a retirement pension during the period he or she is so employed.

(2) If the re-employed pensioner receives a payment under the pension plan while he or she is employed by the Board, he or she is not entitled to further payments under the pension plan until the amount received is repaid, with interest, to the pension fund.

##### AMOUNT OF THE NORMAL RETIREMENT PENSION

27. (1) The amount of a person's normal retirement pension is determined in accordance with this section.

(2) A normal retirement pension is payable in equal monthly instalments for the remainder of the life of the person entitled to receive it.

(3) The amount of a person's annual pension is calculated using the formula,

$$(A + B) - C$$

in which,

"A" equals 2 per cent of the person's average annual earnings during the average of the 36 consecutive highest paid months in his or her last 120 months of pensionable service under the pension plan, multiplied by the number of full years and any fraction of a year of pensionable service to December 31, 1965;

"B" equals 2 per cent of the person's average annual earnings during the average of the 60 consecutive highest paid months in his or her last 120 months of pensionable service under the pension plan, multiplied by the number of full years and any fraction of a year of pensionable service as computed from January 1, 1966 or such later date on which the person became a member of the pension plan to the date the person terminated his or her membership; and

"C" equals 0.7 per cent of the average of the annual earnings during the 60 consecutive highest paid months in the person's last 120 months of pensionable service, multiplied by the number of full years and any fraction of a year in pensionable service under the pension plan from January 1, 1966, but not exceeding 35 years of pensionable service, to be calculated on the basis of the lesser of the person's earnings or the Year's Maximum Pensionable Earnings in each year in the averaging period.

(4) When calculating the amount of an annual pension under subsection (3), "C" in the formula does not apply to any period during which the member's contributions were increased under subsection 11 (4).

(5) Despite subsection (3), if the commuted value of the portion of the person's pension with respect to his or her pensionable service before January 1, 1987 is less than the sum of his or her contributions made before that date, with interest up to the date of retirement, the person's pension is increased to the extent necessary to render the commuted value of that portion of the pension equal to the sum of those contributions with interest.



(6) Despite subsection (3), the person's initial pension at retirement is reduced, if necessary, so that it does not exceed the lesser of,

- (a) 2 per cent of the person's indexed final average salary as determined under subsection (7) multiplied by the person's years of pensionable service, excluding service before January 1, 1991 in excess of 35 years; or
- (b) \$1,722.22, adjusted by the ratio described in subsection (8) and multiplied by the person's years of pensionable service, excluding service before January 1, 1991 in excess of 35 years.

(7) The person's indexed final average salary is the average of the person's salary, while he or she was a member of the pension plan, for the three highest non-overlapping periods of 12 consecutive months, multiplied, for each period, by the ratio "A/B" in which,

"A" equals the average industrial wage for the year in which the person retires, and

"B" equals,

- (a) the average industrial wage for the calendar year in which most of the person's earnings for the 12-month period were earned, if that year is 1987 or later, or
  - (b) the average industrial wage for 1986, otherwise.
- (8) The ratio referred to in clause (6) (b) is,
- (a) 1.0 in the case of a pension that begins before 2005; and
  - (b) the ratio of the average industrial wage for the year in which the pension begins to the average industrial wage for 2004, in the case of a pension that begins after 2004.

(9) The average industrial wage for a year is as published by Statistics Canada.

(10) If a person has accumulated less than 60 months of pensionable service under the plan, the total number of months are used to determine the person's average annual earnings.

#### ENTITLEMENT TO AN EARLY RETIREMENT PENSION

28. (1) A member or former member who is at least 55 years of age and who is entitled to a deferred pension under the pension plan may elect to receive an early retirement pension.

(2) A member whose age, when added to the number of years of his or her continuous membership in the pension plan, totals at least 90 may elect to receive an early retirement pension.

(3) A member who is at least 60 years of age and who has been a member of the pension plan for at least 20 years may elect to receive an early retirement pension.

(4) If a member elects to receive an early retirement pension under subsection (2) or (3), the date on which the member begins to receive the pension is considered to be the member's date of retirement.

(5) A member who elects to receive an early retirement pension under subsection (2) or (3) cannot revoke the election.

(6) A member whose age, when added to the number of years of his or her continuous membership in the pension plan, totals at least 80 may elect to receive an early retirement pension. The election must be made before January 1, 2000.

(7) A member may elect before January 1, 2000 to receive an early retirement pension if,

- (a) the member begins a paid leave of absence before December 31, 1999; and
- (b) the member's age, at the end of the paid leave, when added to the number of years of his or her continuous membership in the pension plan at the end of the paid leave, totals at least 80.

(8) A member who elects to receive an early retirement pension under subsection (6) or (7) cannot revoke the election.

29. A member or former member who qualifies to elect to receive an early retirement pension under section 28 may make the election at any time after the date of qualification but before the normal retirement date and the member or former member shall begin to receive payments under the pension plan on the first day of the month following the date of the election.

#### AMOUNT OF AN EARLY RETIREMENT PENSION

30. (1) The amount of an early retirement pension under subsection 28 (1) (age 55 with right to deferred pension) is determined in accordance with this section.

(2) The amount of the pension is actuarially reduced in accordance with the person's age at the date the pension begins to be paid as follows:

1. The commuted value of the pension must be equal to the commuted value of the person's normal retirement pension, based upon the person's pensionable service up to the date of retirement.
2. However, the reduction in the pension must not be less than 0.25 per cent multiplied by the number of months from the date of the first pension payment to the first day of the month following the month in which the person reaches 60 years of age.

(3) The following apply if the person is a member and has at least 10 years of continuous membership in the plan at the date of retirement:

1. The amount of the pension, before any actuarial reduction is made under this section, is calculated in the same manner as a normal retirement pension under section 27. However, "C" in the formula does not apply until the person's normal retirement date.
2. The actuarial reduction in the pension must not be more than 3 per cent of the normal retirement pension multiplied by the number of whole years and any fraction of a year from the date of retirement to the first date on which the person would have been entitled to a normal retirement pension or to an early retirement pension under subsection 28 (2) or (3), had he or she continued to be an employee until that date.

(4) If the person is a former member or a member who has at least two years but less than 10 years of continuous membership in the pension plan at the date of retirement, the actuarial reduction in the pension must not be more than 5 per cent of the normal retirement pension multiplied by the number of full years and any fraction of a year from the date of retirement to the normal retirement date.

31. (1) The amount of an early retirement pension under the following subsections is determined in accordance with this section:

1. Subsection 28 (2) (age plus years of membership equals 90).
2. Subsection 28 (3) (60 years old with 20 years' membership).



3. Subsection 28 (6) (age plus years of membership equals 80).
4. Subsection 28 (7) (age plus years of membership equals 80, paid leave situation).

(2) The amount of the pension is calculated in the same manner as a normal retirement pension under section 27. However, "C" in the formula does not apply until the person's normal retirement date.

#### DISABILITY PENSIONS

32. (1) A member with at least 10 continuous years of membership in the pension plan may apply to receive a disability pension.

(2) Subject to subsection (3), the member is entitled to receive a disability pension if,

- (a) the member is suffering from a physical or mental disability which prevents him or her from engaging in employment for which the member is reasonably suited by reason of education, training or experience;
- (b) the disability can reasonably be expected to last for the remainder of the member's lifetime; and
- (c) a legally qualified medical practitioner selected by the Board certifies that the requirements in clauses (a) and (b) are satisfied.

(3) The member is not entitled to receive a disability pension if the member is receiving benefits under the Board's long-term disability plan.

(4) A member who is entitled to receive a disability pension is entitled to receive payments under the pension plan as of the first day of the month following the date the Board received the application for the disability pension.

(5) The amount of the disability pension is the amount of the member's normal retirement pension, at the date on which the member became disabled, excluding any actuarial discounts otherwise applicable in calculating the amount of the normal retirement pension.

(6) If a former member who is receiving a disability pension becomes re-employed by the Board as a permanent or probationary employee, the former member ceases to be entitled to receive the disability pension.

(7) For the purposes of Part VII, a member receiving a disability pension is considered to be receiving a retirement pension under the pension plan.

#### PART V PRE-RETIREMENT DEATH BENEFITS

33. If a member dies before completing 24 months of continuous membership in the pension plan, a lump sum equal to the member's contributions to the pension fund, with interest, is payable to the beneficiary designated by the member or, in the absence of a designation, to the member's estate.

34. (1) This section applies if a person who has completed 24 months of continuous membership in the pension plan dies before beginning to receive a retirement pension and,

- (a) the person has no surviving spouse;
- (b) the person is living separate and apart from his or her spouse on the date of death; or

(c) the person leaves a surviving spouse and has completed less than 10 years of pensionable service.

(2) A death benefit is payable,

- (a) to the surviving spouse, if any, if the person was not living separate and apart from the spouse on the date of death;
- (b) to the beneficiary, if any, designated by the person, if the person has no surviving spouse or if the person was living separate and apart from the spouse on the date of death; or
- (c) to the person's estate.

(3) The spouse entitled to a death benefit under clause (2) (a) may elect to receive it in the form of a lump sum or an immediate or deferred pension, the commuted value of which is equal to the commuted value of the death benefit.

(4) The death benefit under clause (2) (b) or (c) is payable in the form of a lump sum.

(5) The commuted value of the death benefit equals the sum of,

- (a) the person's contributions under the pension plan made before January 1, 1987, with interest; and
- (b) the greater of,
  - (i) the person's contributions made after December 31, 1986, with interest, or
  - (ii) the sum of,
    - (A) the commuted value of a deferred pension calculated in accordance with section 27 but based solely on the person's pensionable service after December 31, 1986, and
    - (B) the excess, if any, of the amount described in subclause (b) (i) over 50 per cent of the amount described in sub-clause (b) (ii) (A).

35. (1) This section applies if a person who has completed 24 months of continuous membership in the pension plan dies before beginning to receive a retirement pension and,

- (a) has completed at least 10 years of pensionable service;
- (b) leaves a surviving spouse; and
- (c) was not living separate and apart from the surviving spouse on the date of death.

(2) The surviving spouse is entitled to receive a death benefit, the commuted value of which is the greater of the amount described in subsection (3) or (4).

(3) The first amount is the sum of,

- (a) the person's contributions under the pension plan made before January 1, 1987, with interest; and
- (b) the greater of,
  - (i) the person's contributions made after December 31, 1986, with interest, or
  - (ii) the sum of,

(A) the commuted value of a deferred pension calculated in accordance with section 27 but based only on the

person's pensionable service after December 31, 1986,  
and

- (B) the excess, if any, of the amount described in subclause (b) (i) over 50 per cent of the amount described in sub-subclause (b) (ii) (A).

(4) The second amount is the commuted value of an immediate pension, payable for life to the person's spouse, equal to the sum of,

- (a) 50 per cent of the pension calculated in accordance with section 27 but based only on the person's pensionable service before January 1, 1987; and

- (b) 60 per cent of the pension calculated in accordance with that section, but based only on the person's pensionable service after December 31, 1986.

(5) The spouse may elect to receive the death benefit in the form of a lump sum or an immediate or deferred pension, the commuted value of which is equal to the commuted value of the death benefit.

**36.** (1) This section applies if a person who has completed 24 months of continuous membership in the pension plan dies before beginning to receive a retirement pension and,

- (a) has completed at least 10 years of pensionable service;

- (b) leaves no surviving spouse, or leaves a surviving spouse from whom the person is living separate and apart on the date of death; and

- (c) leaves one or more dependent children.

(2) Each dependent child is entitled to an equal share of the children's pension for so long as he or she remains a dependent child.

- (3) The aggregate amount of the children's pension is the sum of,

- (a) 50 per cent of the pension calculated in accordance with section 27 but based only on the person's pensionable service before January 1, 1987; and

- (b) 60 per cent of the pension calculated in accordance with that section, but based only on the person's pensionable service after December 31, 1986.

(4) The children's pension becomes payable on the first day of the month following the month in which the person dies.

**37.** (1) This section applies if a children's pension is payable under section 36 and the commuted value of the death benefit calculated under section 34 is greater than the commuted value of the children's pension.

(2) The excess of the commuted value of the death benefit calculated under section 34 over the commuted value of the children's pension is payable,

- (a) to the beneficiary, if any, designated by the person; or

- (b) in the absence of such a designation, to the person's estate.

## PART VI JOINT AND SURVIVOR BENEFITS

### JOINT AND SURVIVOR PENSIONS

**38.** (1) Every pension payable under the pension plan beginning after December 31, 1986 to a former member who has a spouse on the date of retirement is a joint and survivor pension.

(2) The surviving spouse, if any, of the former member is entitled to receive a survivor pension of 60 per cent of the former member's pension for the remaining lifetime of the spouse.

(3) Despite subsection (2), the former member and his or her spouse may elect to have the joint and survivor pension payable in another proportion, with a pension being paid to the former member for his or her lifetime.

(4) The former member and his or her spouse may not elect under subsection (3) to have the survivor pension be less than 50 per cent or more than 100 per cent of the pension paid to the former member during his or her lifetime.

(5) An election must be made in writing before the former member's pension begins.

(6) The commuted value of the former member's pension and the survivor pension under this section must equal the commuted value of the former member's normal retirement pension otherwise payable for the lifetime of the former member with a 60 per cent survivor pension payable to the former member's spouse.

(7) Every joint and survivor pension being paid under the pension plan on January 1, 1998 shall be increased, if necessary, as if subsections (2) and (6) had been in force on the date that the former member began to receive a pension under the pension plan.

### DEATH AFTER RETIREMENT

**39.** (1) A survivor pension is payable only to the person who is the spouse of the former member on the date of his or her retirement.

(2) Despite subsection (1), a former member who acquires a spouse after beginning to receive a pension may elect to have his or her retirement pension paid as a joint and survivor pension if,

- (a) the former member did not have a spouse on his or her retirement date; or

- (b) the former member had a spouse on his or her retirement date and that spouse has died and there are no dependent children entitled to benefits under section 40.

(3) An election must be made in writing within the six-month period beginning one year after the former member acquires the spouse.

(4) The former member's pension shall be reduced so that the commuted value of the former member's pension (as reduced) and the survivor pension under this section equals the commuted value of the former member's pension before the reduction.

(5) The actuarial reduction of the former member's pension under subsection (4) is based upon the ages of the former member and the former member's spouse on the last day of the month in which the former member's election is received by the Board.

**40.** (1) This section applies if a spouse otherwise entitled to a survivor pension predeceases the former member after the former member begins receiving a pension.

(2) The amount of the survivor pension otherwise payable to the deceased spouse becomes payable to any dependent children of the former member who are alive when the former member dies.



(3) Each child's share of the children's survivor pension accrues to the remaining dependent children, if any, when the child ceases to be a dependent child.

41. (1) This section applies when a former member who is receiving a pension dies leaving no surviving spouse or dependent children.

(2) The beneficiary, if any, designated by the former member or, if no beneficiary is designated, the former member's estate is entitled to receive the amount described in subsection (3).

(3) The amount is the excess, if any, of the former member's contributions under the pension plan, with interest calculated to his or her date of retirement, over any pension payments received by the former member.

42. (1) This section applies when a former member who is receiving a pension dies, and his or her surviving spouse or dependent child who is receiving a survivor pension also dies.

(2) The former member's estate is entitled to receive the excess, if any, of the former member's contributions under the pension plan, with interest calculated to his or her date of retirement, over any pension payments received by the former member, the surviving spouse or the dependent child.

43. If more than one person is entitled to a survivor pension, the amount of the pension payable in the aggregate to the entitled persons must not exceed the amount of the pension that would have been payable to one surviving spouse.

#### **PART VII ANNUAL INCREASES IN PENSION BENEFITS**

44. (1) A pension being calculated under subsection 27 (3) is increased as of January 1 each year in accordance with section 45.

(2) A deferred pension payable under the pension plan is increased as of January 1 each year in accordance with section 45 beginning when the person entitled to the pension ceases to be a member of the plan and ending when payment of the pension begins.

(3) A deferred pension shall not be increased under subsection (2) to an amount that exceeds the amount determined under subsection 27 (6).

(4) No increase shall be made in a pension or a deferred pension in respect of a period before January 1, 1992.

45. (1) A pension being calculated under subsection 27 (3) or deferred pension is increased each year as of January 1 in accordance with the indexing factor for the year determined under this section.

(2) The indexing factor for a year is 75 per cent of the percentage change in the Consumer Price Index for Canada for all items, for the 12-month period ending October 31 of the previous year, as published by Statistics Canada. If the change in the Consumer Price Index is negative the indexing factor is zero.

(3) If the indexing factor for a year is greater than 8 per cent, it is deemed to be 8 per cent for the purposes of subsection (1).

(4) If the indexing factor for a year is greater than 8 per cent, the amount by which it exceeds 8 per cent is carried forward and added to the indexing factor for one or more subsequent years until the subsequent indexing factor is increased to 8 per cent.

#### **PART VIII PURCHASING PENSIONABLE SERVICE**

##### **GENERAL**

46. (1) Subject to subsection (2), a member may not purchase pensionable service under the pension plan for a period of employment for which the member has transferred money from a pension fund,

- (a) to a registered pension plan or a locked-in registered pension plan;
- (b) to a locked-in registered retirement savings plan; or
- (c) for the purchase of a life annuity payable not earlier than the date on which the member would have been entitled to receive a pension under this pension plan.

(2) A member may purchase pensionable service under the pension plan for a period of employment with the Board for which the member previously transferred money from the pension fund to a locked-in plan described in clause (1) (a) or (b) if the amount necessary to purchase the service is transferred directly from the locked-in plan to the pension fund.

47. (1) A member may elect to purchase pensionable service under the pension plan for a period of employment with the Board for which the member does not already have credit under the plan.

(2) The member shall make contributions in the amount determined by the actuary in accordance with generally accepted actuarial principles.

48. (1) A member who was employed by the Board as a probationary employee before January 1, 1987 may elect to purchase pensionable service under the pension plan for the period of probationary employment.

(2) The member shall make contributions in the amount determined by the actuary based upon his or her current salary and the contribution rate for members, plus interest.

##### **PURCHASE FOR A LEAVE OF ABSENCE**

49. (1) A member who takes a leave of absence without earnings because of illness or disability may elect to purchase pensionable service under the pension plan for the period of the leave if,

- (a) during the leave, the member suffers from a physical or mental illness or disability that prevents the member from performing the duties of the employment in which the member was engaged before the commencement of the illness or disability; and
- (b) a legally qualified medical practitioner certifies to the administrator of the pension plan that the member has such an illness or disability.

(2) A member is not eligible to purchase under this section a period of pensionable service greater than five years less the sum of all periods of pensionable service previously purchased by him or her under this section or section 50 or under section 51 or 52 of Ontario Regulation 753/91 as it read before January 1, 1998.

(3) An election under subsection (1) must be made within the six-month period beginning on the date that the member returns to work.

(4) The member shall make contributions equal to the amount he or she would have contributed to the pension plan had the leave not been taken.



(5) The member shall make the contributions under subsection (4) within the six-month period beginning on the date that the member returns to work.

(6) If the member makes an election under subsection (1) and makes the contributions under subsection (4), the Board shall make the Board's contributions with respect to the member for the period of the leave.

(7) Despite subsections (3), (4) and (5), the member may elect to purchase the pensionable credit after the end of the six-month period and shall make contributions in the amount determined by the actuary in accordance with generally accepted actuarial principles.

**50.** (1) A member who takes a leave of absence without earnings for special or educational purposes may elect to purchase pensionable service under the pension plan for the period of the leave.

(2) A member is not eligible to purchase under this section a period of pensionable service greater than five years less the sum of all periods of pensionable service previously purchased by him or her under this section or section 49 or under section 51 or 52 of Ontario Regulation 753/91 as it read before January 1, 1998.

(3) An election under subsection (1) must be made within a period of the same duration as the leave of absence, beginning on the date that the member returns to work.

(4) The member shall make contributions equal to the amount he or she would have contributed to the pension plan had the leave not been taken plus the amount that the Board would have been credited as having contributed on his or her behalf for the same period.

(5) The member shall make the contributions under subsection (4) within a period of the same duration as the leave of absence, beginning on the date that the member returns to work.

(6) Despite subsections (3), (4) and (5), the member may elect to purchase the pensionable credit after the end of the period described in subsection (5) and shall make contributions in the amount determined by the actuary in accordance with generally accepted actuarial principles.

**51.** (1) A member who takes a leave of absence for pregnancy or parental purposes may elect to purchase pensionable service under the pension plan for any period of the leave during which the member has no earnings.

(2) A member is not eligible to purchase under this section a period of pensionable service greater than the lesser of,

- (a) 12 months; and
  - (b) 36 months less the sum of all periods of pensionable service previously purchased by him or her under this section or under section 53 of Ontario Regulation 753/91 as it read before January 1, 1998.
- (3) An election under subsection (1) may be made,
- (a) before commencing the leave of absence;
  - (b) during the period, beginning on the date that the member returns to work, of the same duration as the leave of absence or of six months if the leave of absence was less than six months; or
  - (c) after the end of the period described in clause (b).

(4) If the election is made in accordance with clause (3) (a), the member shall continue to make contributions during any period of the leave for which the member has no earnings and the Board shall continue to make the Board's contributions with respect to the member during the same period.

(5) If the election is made in accordance with clause (3) (b), the member shall make contributions equal to the amount he or she would have contributed to the pension plan had the leave not been taken plus the amount that the Board would have been credited as having contributed on his or her behalf for the same period and the member shall pay the contributions within the period described in clause (3) (b).

(6) If the election is made in accordance with clause (3) (c), the member shall make contributions in the amount determined by the actuary in accordance with generally accepted actuarial principles.

**52.** A member is not eligible to purchase pensionable service under section 49, 50 or 51 in respect of a period for which,

- (a) defined benefits are provided to him or her under another registered pension plan; or
- (b) contributions are made by or on behalf of him or her under a money purchase provision of a registered pension plan or to a deferred profit sharing plan.

**53.** For the purpose of subsection 50 (4) or 51 (5), the amount that the Board would have been credited as having contributed shall be determined by the Board on the basis of the most recent actuarial valuation.

#### PURCHASE FOR ACTIVE MILITARY SERVICE

**54.** (1) A member may elect to purchase pensionable service under the pension plan respecting his or her active service during World War II or the Korean War,

- (a) in His or Her Majesty's navy, army or air force or in the Canadian or British Merchant Marine; or
- (b) in a navy, army or air force that was allied with His or Her Majesty's forces.

(2) The member shall make contributions based upon the person's current salary and a contribution rate equal to twice the contribution rate for members, plus interest.

(3) In this section,

"active service" has the same meaning as in the *National Defence Act* (Canada).

#### TRANSFERRING PENSIONABLE SERVICE IN FROM ANOTHER PENSION PLAN

**55.** (1) This section applies with respect to a person who becomes employed by the Board within 18 months after ceasing to be employed by one of the following:

- 1. The public service of Canada or of a province or territory of Canada.
- 2. The civic service of a municipality in Ontario.
- 3. A board, commission or public institution established under an Act of the Legislature of Ontario.
- 4. A Crown corporation of Canada or of a province or territory of Canada.

5. A university in Ontario or a college of applied arts and technology to which the *Ministry of Colleges and Universities Act* applies.
6. The Canadian armed forces.
7. The practising clergy contributing to a registered pension plan sponsored by the person's religious denomination.
8. A government, municipality, board, commission or public institution with which the Board has entered into a reciprocal agreement under subsection 171 (7) of the Act.

(2) A person who is a member of the pension plan may elect to transfer pensionable service from an organization described in subsection (1).

(3) The amount of pensionable service that is transferred under subsection (2), and the amount of money to be contributed in respect of the service, is determined by the actuary in accordance with generally accepted actuarial principles.

(4) The amount of money that is transferred to the pension fund in connection with a transfer under subsection (2) is deemed to be the person's contributions under the pension plan.

(5) A person is not eligible to be credited with pensionable service under the pension plan if the person remains entitled to credit for the same pensionable service under the other pension plan.

(6) Despite subsections (2) to (4), if a person transfers pensionable service from a registered pension plan of an organization with whom the Board has concluded a reciprocal agreement, the transfer is made in accordance with the terms of the agreement.

## PART IX MISCELLANEOUS

56. (1) No right of a person under the pension plan is capable of being assigned, charged, anticipated, given as security or surrendered except by an order under the *Family Law Act* or by a domestic contract as defined in Part IV of that Act.

(2) Despite subsection (1), a right of a person under the pension plan may be surrendered for the purpose of reducing benefits in order to avoid the revocation of the registration of the pension plan under the *Income Tax Act* (Canada).

## PART X TRANSITION, REVOCATION AND COMMENCEMENT

57. Ontario Regulation 753/91, as it reads immediately before this Regulation comes into force, continues to apply with respect to rights and benefits accrued or vested under the pension plan before January 1, 1998.

58. Ontario Regulations 753/91, 898/93, 292/96 and 454/97 are revoked.

59. This Regulation comes into force on January 1, 1998.

WORKERS' COMPENSATION BOARD:

GLEN WRIGHT  
Chair

LINDA ANGOVE  
Secretary

Dated on December 3, 1997.

52/97

## ONTARIO REGULATION 456/97 made under the WORKPLACE SAFETY AND INSURANCE ACT, 1997

Made: December 3, 1997  
Approved: December 10, 1997  
Filed: December 11, 1997

## FUNCTIONAL ABILITIES FORM

1. (1) The Form is prescribed for the purposes of subsection 37 (3) of the Act.

(2) The information required to complete the Form is prescribed for the purposes of subsection 37 (3) of the Act.

2. This Regulation comes into force on January 1, 1998.

**Form**  
*Workplace Safety and Insurance Act, 1997*

WSIB

Workplace Safety & Insurance Board

CSPAT

Commission de la sécurité professionnelle et de l'assurance contre les accidents du travail

200 Front Street West  
Toronto ON M5V 3J1

200, rue Front Ouest  
Toronto ON M5V 3J1

Functional Abilities Form  
for Timely Return to Work

The following information should be completed by the employer or the injured worker. Please read the information on the reverse.

Health No.

Claim No.

Initial form

Follow-up form

Date of Accident

day

month

year

Employer Telephone No.

Area Code

Telephone

Worker's Last Name

First Name

Full Address (No., Street, Apt.)

City/Town

Province

Postal Code

Area Code

Telephone No.

Social Insurance No.

Date of Birth

day

month

year

Employer's Name

Full Address (No., Street, Apt.)

City/Town

Province

Postal Code

**Accident Information** (This information should be completed by the employer or the injured worker.)
 

Type of Job at Time of Injury (Where available, see attached description of job activities)
 

Area of Injury

The following information should be completed by the Health Professional:

1

Date of examination on which the report is based

Area of Injury

2

Rehabilitation/Treatment Required?

yes

no

Is the worker capable of returning to work immediately without restrictions?

yes

no

If no, please complete the next section.

3

Please complete where capabilities are known or limitations recommended. Note: "as tolerated" implies that restrictions are recommended but must be quantified in the workplace.

Capabilities

Walking: short distance only

as tolerated

other (eg. uneven ground)

Standing: less than 15 min

less than 30 min.

as tolerated

other

Sitting: less than 30 min

less than 1 hour

as tolerated

other

Lifting floor to waist: less than 10 Kg.

less than 25 Kg.

as tolerated

other

Lifting waist to shoulder: less than 10 Kg.

less than 25 Kg.

as tolerated

other

Stair climbing: none

2-3 steps only

short flight

own pace

as tolerated

Ladder climbing: none

2-3 steps only

4-6 steps only

own pace

as tolerated

General Comments/Specific Limitations

4

Limited ability to use hand to: hold objects

grip

type

write

Limitations

Bending or twisting of

Repetitive movement of

Chemical exposure to

Environmental exposure to

Operating motorised equipment

Restrictions related to medications: (specify)

Above shoulder activity

Below shoulder activity

Exposure to vibration: high frequency

low frequency

Limit physical exertion to: mild

moderate

as tolerated

5

Complete Recovery Expected?

no

yes

Estimated Duration of Limitations

Recommendation for Work Hours

Full-time hours

Modified hours

Graduated hours

Health Professional's Name

(Please print)

Health Profession

City/Town

Province

Postal Code

Date

Area Code

Telephone

Signature

WCBAgency Billing No.

Your own invoice No.

Service date

day

month

year

Fee code

M643

547A (10/97)

White - Employer      Canary - WSIB      Pink - Worker      Goldenrod - Health Professional

WORKERS' COMPENSATION BOARD:

GLEN WRIGHT  
*Chair*

LINDA ANGOVE  
*Secretary*

Dated on December 3, 1997.

52/97



**ONTARIO REGULATION 457/97**  
made under the  
**PUBLIC SECTOR LABOUR**  
**RELATIONS TRANSITION ACT, 1997**

Made: December 10, 1997

Filed: December 11, 1997

**CONSTRUCTION WORK**

1. (1) If a predecessor employer was a municipality or a school board and a construction union had bargaining rights with respect to a bargaining unit of that employer that contained or would have contained employees who performed construction work, the following apply:

1. The description of the bargaining unit of the successor employer referred to in subsection 14 (1) of the Act shall not include, or be changed under section 22 of the Act to include, employees who perform construction work outside the geographic jurisdiction of the predecessor employer unless the successor employer agrees.
2. Despite sections 15 and 24 of the Act, a collective agreement that bound the predecessor employer immediately before the changeover date does not bind the successor employer with respect to construction work performed outside the geographic jurisdiction of the predecessor employer unless the successor employer agrees.

(2) For the purposes of this section, two or more predecessor employers shall be deemed to be a single predecessor employer if each of them had a bargaining unit containing employees who performed construction work and,

- (a) the same construction union had bargaining rights with respect to each of the bargaining units; or
- (b) construction unions that are affiliated bargaining agents subordinate or directly related to the same provincial, national or international trade union had bargaining rights with respect to the bargaining units.

2. Sections 31 and 32 of the Act do not apply with respect to a provincial agreement as defined in section 151 of the *Labour Relations Act, 1995*.

52/97

**ONTARIO REGULATION 458/97**  
made under the  
**PUBLIC SECTOR LABOUR**  
**RELATIONS TRANSITION ACT, 1997**

Made: December 10, 1997

Filed: December 11, 1997

**APPLICATION OF THE ACT**

1. (1) The Act applies upon the occurrence of the following events:

1. The dissolution of the public utilities commission of The Corporation of the Town of Thornbury and the assumption by The Corporation of the Town of Thornbury-Collingwood of the powers and authority of the dissolved public utilities commission.
2. The dissolution of the public utilities commission of The Corporation of the Village of Watford and the assumption by The Cor-

poration of the Township of Warwick of the powers and authority of the dissolved public utilities commission.

3. The dissolution of the public utilities commissions of The Corporation of the Town of Amherstburg and The Corporation of the Township of Malden and the assumption by the hydro-electric commission of The Corporation of the Town of Amherstburg of the powers and authority of the dissolved public utilities commissions respecting the distribution and supply of electrical power.
4. The dissolution of the public utilities commission of The Corporation of the Town of Picton and the assumption by The Corporation of the County of Prince Edward of the powers and authority of the dissolved public utilities commission.
5. The dissolution of the Rodney Public Utilities Commission and the public utilities commission of The Corporation of the Village of West Lorne and the assumption by the hydro-electric commission of The Corporation of the Municipality of West Elgin of the powers and authority of the dissolved public utilities commissions respecting the distribution and supply of electrical power.
6. The dissolution of the public utilities commission of The Corporation of the Village of Dutton and the assumption by The Corporation of the Municipality of Dutton/Dunwich of the powers and authority of the dissolved public utilities commission.
7. The dissolution of the public utilities commissions of The Corporation of the Village of Belmont and The Corporation of the Village of Port Stanley and the assumption by The Corporation of the Municipality of Central Elgin of the powers and authority of the dissolved public utilities commissions.
8. The dissolution of the public utilities commission of The Corporation of the Village of Springfield and the assumption by The Corporation of the Township of Malahide of the powers and authority of the dissolved public utilities commission.

(2) For the purposes of the Act, for the events described in subsection (1),

- (a) the predecessor employers are the public utility commissions that are dissolved;
- (b) the successor employers are the municipalities and hydro-electric commissions that assume the power and authority of the dissolved public utilities commissions;
- (c) the changeover date for each event is January 1, 1998.

2. (1) The Act applies upon the occurrence of the following events:

1. The transfer of responsibility to construct and maintain roads from The Corporation of the County of Lennox and Addington to The Corporation of the Township of Stone Mills.
2. The transfer of responsibility to construct and maintain roads from The Corporation of the County of Lennox and Addington to The Corporation of the Town of Greater Napanee.
3. The transfer of responsibility to construct and maintain roads from The Corporation of the County of Lennox and Addington to The Corporation of Loyalist Township.
4. The transfer of responsibility to construct and maintain roads from The Corporation of the County of Elgin to The Corporation of the Municipality of West Elgin.
5. The transfer of responsibility to construct and maintain roads from The Corporation of the County of Elgin to The Corporation of the Municipality of Dutton/Dunwich.

6. The transfer of responsibility to construct and maintain roads from The Corporation of the County of Elgin to The Corporation of the Municipality of Central Elgin.
7. The transfer of responsibility to construct and maintain roads from The Corporation of the County of Elgin to The Corporation of the Township of Malahide.
8. The transfer of responsibility to construct and maintain roads from The Corporation of the County of Elgin to The Corporation of the Municipality of Bayham.

- (2) For the purposes of the Act, for the events described in subsection (1),
  - (a) the predecessor employers are the municipalities from which responsibility is transferred;
  - (b) the successor employers are the municipalities to which responsibility is transferred;
  - (c) the changeover date for each event is January 1, 1998.

52/97

**ONTARIO REGULATION 459/97**  
made under the  
**MINING ACT**

Made: December 10, 1997  
Filed: December 11, 1997

Amending O. Reg. 113/91  
(General)

Note: Ontario Regulation 113/91 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Sections 3, 4 and 5 of Ontario Regulation 113/91 are revoked and the following substituted:**

3. The annual rental for a lease or renewal lease under section 81 of the Act is \$3 per hectare whether the lease be of both mining rights and surface rights or of mining rights only.

4. The annual rental for a lease or renewal lease under section 82 of the Act is \$3 per hectare whether the lease be of both mining rights and surface rights or of mining rights only.

5. The annual rental for a lease or renewal lease of surface rights under section 84 of the Act is \$3 per hectare.

**2. This Regulation comes into force on January 1, 1998.**

52/97

**ONTARIO REGULATION 460/97**  
made under the  
**EDUCATION ACT**

Made: December 10, 1997  
Filed: December 11, 1997

**TRANSITION FROM OLD BOARDS TO  
DISTRICT SCHOOL BOARDS**

**PART I  
DEFINITIONS**

**1. In this Regulation,**

“assets” includes real and personal property; (“éléments d’actifs”)

“assets, liabilities and employees” associated with an old board means,

- (a) the assets and liabilities that the designated board associated with the old board acquired as a result of the merger under section 2 of the old board with the designated board, and

**RÈGLEMENT DE L'ONTARIO 459/97**  
pris en application de la  
**LOI SUR LES MINES**

pris le 10 décembre 1997  
déposé le 11 décembre 1997

modifiant le Règl. de l'Ont. 113/91  
(Dispositions générales)

Remarque : Le Règlement de l'Ontario 113/91 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. Les articles 3, 4 et 5 du Règlement de l'Ontario 113/91 sont abrogés et remplacés par ce qui suit :**

3. Le loyer annuel du bail ou du bail reconduit prévu à l'article 81 de la Loi est de 3 \$ l'hectare, que le bail soit pour les droits miniers et les droits de surface ou pour les droits miniers seulement.

4. Le loyer annuel du bail ou du bail reconduit prévu à l'article 82 de la Loi est de 3 \$ l'hectare, que le bail soit pour les droits miniers et les droits de surface ou pour les droits miniers seulement.

5. Le loyer annuel du bail ou du bail reconduit des droits de surface prévu à l'article 84 de la Loi est de 3 \$ l'hectare.

**2. Le présent règlement entre en vigueur le 1<sup>er</sup> janvier 1998.**

**RÈGLEMENT DE L'ONTARIO 460/97**  
pris en application de la  
**LOI SUR L'ÉDUCATION**

pris le 10 décembre 1997  
déposé le 11 décembre 1997

**TRANSITION DES ANCIENS CONSEILS AUX  
CONSEILS SCOLAIRES DE DISTRICT**

**PARTIE I  
DÉFINITIONS**

**1. Les définitions qui suivent s'appliquent au présent règlement.**

«Commission» La Commission d'amélioration de l'éducation. («Commission»)

«conseil désigné» S'agissant du conseil désigné qui est rattaché à un ancien conseil, s'entend du conseil scolaire de district mentionné dans la colonne 2 de l'annexe 1 en regard de l'ancien conseil mentionné dans la colonne 1 de la même annexe. («designated board»)

- (b) the employees who were transferred under section 2 from the old board to the designated board associated with the old board; ("éléments d'actif, éléments de passif et employés")

"Commission" means Education Improvement Commission; ("Commission")

"designated board" associated with an old board means the district school board that is listed in column 2 of Schedule 1, opposite the old board listed in column 1 of Schedule 1; ("conseil désigné")

"supported board" associated with an old board means the district school board that is listed in column 3 of Schedule 1, opposite the old board listed in Column 1 of Schedule 1. ("conseil secondé")

## PART II MERGER OF OLD BOARDS WITH DISTRICT SCHOOL BOARDS AND RELATED EMPLOYEE TRANSFERS

2. Effective January 1, 1998,

- (a) each employee of each old board listed in column 1 of Schedule 1 is transferred to the district school board listed opposite in column 2 of Schedule 1; and
- (b) immediately after the transfer under clause (a), each old board listed in column 1 of Schedule 1 is merged with and continued as the district school board listed opposite in column 2 of Schedule 1.

## PART III INTERIM ROLE OF DESIGNATED BOARD

3. (1) Until an order under this Regulation determining the disposition of an asset, liability or employee associated with an old board takes effect, the designated board associated with the old board shall manage the asset, liability or employee.

(2) Where a designated board is required to manage assets, liabilities or employees under subsection (1), it shall do so for and on behalf of,

- (a) itself; and
- (b) the supported board associated with the old board.

4. (1) The designated board associated with an old board shall exercise the powers and carry out the duties of the supported board associated with the old board as necessary in order to,

- (a) provide continuity in the education of pupils who have the right to attend schools governed by the supported board; and
- (b) permit a smooth transition from governance by the old board to governance by the district school boards.

(2) The designated board shall not exercise any power or carry out any duty of the supported board under this section after the earlier of,

- (a) December 31, 1998; and

«conseil secondé» S'agissant du conseil secondé qui est rattaché à un ancien conseil, s'entend du conseil scolaire de district mentionné dans la colonne 3 de l'annexe 1 en regard de l'ancien conseil mentionné dans la colonne 1 de la même annexe. («supported board»)

«éléments d'actif» S'entend notamment des biens meubles et immeubles. («assets»)

«éléments d'actif, éléments de passif et employés» S'agissant des éléments d'actif, des éléments de passif et des employés rattachés à un ancien conseil, s'entend de ce qui suit :

- a) les éléments d'actif et les éléments de passif que le conseil désigné qui est rattaché à l'ancien conseil a acquis par suite de la fusion de l'ancien conseil et du conseil désigné aux termes de l'article 2;
- b) les employés mutés, aux termes de l'article 2, de l'ancien conseil au conseil désigné qui lui est rattaché. («assets, liabilities and employees»)

## PARTIE II FUSION DES ANCIENS CONSEILS ET DES CONSEILS SCOLAIRES DE DISTRICT ET MUTATIONS CONNEXES DES EMPLOYÉS

2. À partir du 1<sup>er</sup> janvier 1998 :

- a) chaque employé de chaque ancien conseil mentionné dans la colonne 1 de l'annexe 1 est muté au conseil scolaire de district mentionné en regard dans la colonne 2 de la même annexe;
- b) immédiatement après la mutation prévue à l'alinéa a), chaque ancien conseil mentionné dans la colonne 1 de l'annexe 1 et le conseil scolaire de district mentionné en regard dans la colonne 2 de la même annexe fusionnent et sont prorogés en ce conseil scolaire de district.

## PARTIE III RÔLE PROVISOIRE DU CONSEIL DÉSIGNÉ

3. (1) Le conseil désigné qui est rattaché à un ancien conseil gère les éléments d'actif, les éléments de passif et les employés rattachés à l'ancien conseil jusqu'à ce qu'une ordonnance déterminant leur affectation, prise aux termes du présent règlement, prenne effet.

(2) Le conseil désigné qui est tenu de gérer des éléments d'actif, des éléments de passif ou des employés aux termes du paragraphe (1) le fait :

- a) d'une part, pour lui-même et en son nom;
- b) d'autre part, pour le conseil secondé qui est rattaché à l'ancien conseil et au nom du conseil secondé.

4. (1) Le conseil désigné qui est rattaché à un ancien conseil exerce les pouvoirs et fonctions nécessaires du conseil secondé qui est rattaché à l'ancien conseil aux fins suivantes :

- a) éviter toute interruption de l'enseignement dispensé aux élèves qui ont le droit de fréquenter les écoles que gère le conseil secondé;
- b) assurer la transition sans heurts d'une gestion assurée par l'ancien conseil à une gestion assurée par les conseils scolaires de district.

(2) Le conseil désigné ne doit pas exercer quelque pouvoir ou fonction que ce soit du conseil secondé aux termes du présent article après la première des dates suivantes :

- a) le 31 décembre 1998;



- (b) a date specified for the purposes of this subsection by the Commission in relation to the designated board and the supported board, in a written notice to the two boards.

5. (1) For the purposes of sections 3 and 4, in order to ensure that the governance role of the supported board associated with an old board is respected as required by subsection 58.2.1 (7) of the Act, the designated board associated with the old board shall,

- (a) be guided by the principles underlying sections 312, 318 and 325 of the Act, as it read immediately before January 1, 1998; and
- (b) follow any directives issued by the Commission under subsection (2).

(2) The Commission may issue directives to district school boards respecting how the requirements of the following provisions are to be met:

- 1. Subsection (1) of this section.
- 2. Sections 3 and 4.
- 3. Subsection 58.2.1 (7) of the Act.

(3) In issuing a directive under subsection (2), the Commission shall be guided by the principles underlying sections 312, 318 and 325 of the Act, as it read immediately before January 1, 1998.

6. (1) This section applies where,

- (a) on December 31, 1997, there is an agreement in effect between two old boards; and
- (b) on January 1, 1998, the old boards are merged with district school boards.

(2) Until January 1, 1999, the district school boards referred to in clause (1) (b) may not amend or revoke the agreement referred to in clause (1) (a) without the prior written approval of the Commission.

(3) The Commission shall not give the approval without giving each district school board with an interest in the agreement an opportunity to make representations to the Commission.

#### PART IV ORDERS ON JOINT REQUEST

##### JOINT REQUEST FOR ORDER

7. (1) The supported board associated with an old board and the designated board associated with the old board may jointly request, in writing, that the Commission make an order with respect to any asset, liability or employee associated with the old board.

(2) A joint request may be made under subsection (1) at any time before the Commission makes an order under this Regulation determining the disposition of the asset, liability or employee.

(3) A joint request may be in respect of any group of assets, liabilities and employees associated with one or more old boards with which both the designated board and the supported board are associated.

(4) The joint request must identify the assets, liabilities and employees that are the subject of the request and, with respect to each, state whether the asset, liability or employee should be transferred to the supported board or remain with the designated board.

- (b) la date que précise la Commission pour l'application du présent paragraphe à l'égard du conseil désigné et du conseil secondé dans un avis écrit qu'elle donne à chacun d'eux.

5. (1) Pour l'application des articles 3 et 4, afin de veiller à ce que les fonctions de gestion du conseil secondé qui est rattaché à un ancien conseil soient respectées comme l'exige le paragraphe 58.2.1 (7) de la Loi, le conseil désigné qui est rattaché à l'ancien conseil fait ce qui suit :

- a) il se laisse guider par les principes qui sous-tendent les articles 312, 318 et 325 de la Loi, telle qu'elle existait immédiatement avant le 1<sup>er</sup> janvier 1998;
- b) il suit les directives que donne la Commission en vertu du paragraphe (2).

(2) La Commission peut donner des directives aux conseils scolaires de district sur la façon dont les exigences des dispositions suivantes doivent être respectées :

- 1. Le paragraphe (1) du présent article.
- 2. Les articles 3 et 4.
- 3. Le paragraphe 58.2.1 (7) de la Loi.

(3) Lorsqu'elle donne une directive en vertu du paragraphe (2), la Commission se laisse guider par les principes qui sous-tendent les articles 312, 318 et 325 de la Loi, telle qu'elle existait immédiatement avant le 1<sup>er</sup> janvier 1998.

6. (1) Le présent article s'applique lorsque les conditions suivantes sont réunies :

- a) le 31 décembre 1997, une entente conclue entre deux anciens conseils est en vigueur;
- b) le 1<sup>er</sup> janvier 1998, les anciens conseils fusionnent avec des conseils scolaires de district.

(2) Les conseils scolaires de district visés à l'alinéa (1) b) ne peuvent pas, jusqu'au 1<sup>er</sup> janvier 1999, modifier ou révoquer l'entente visée à l'alinéa (1) a) sans l'approbation préalable écrite de la Commission.

(3) La Commission ne doit pas donner son approbation sans donner à chaque conseil scolaire de district qui est touché par l'entente l'occasion de lui présenter des observations.

#### PARTIE IV ORDONNANCES PRISES SUR DEMANDE CONJOINTE

##### DEMANDE CONJOINTE D'ORDONNANCE

7. (1) Le conseil secondé qui est rattaché à un ancien conseil et le conseil désigné qui est rattaché à l'ancien conseil peuvent demander conjointement, par écrit, que la Commission prenne une ordonnance en ce qui concerne un élément d'actif, un élément de passif ou un employé rattaché à l'ancien conseil.

(2) Une demande conjointe peut être présentée en vertu du paragraphe (1) avant que la Commission prenne une ordonnance aux termes du présent règlement déterminant l'affectation de l'élément d'actif, de l'élément de passif ou de l'employé.

(3) La demande conjointe peut porter sur n'importe quel groupe d'éléments d'actif, d'éléments de passif et d'employés rattachés à un ou à plusieurs anciens conseils auxquels le conseil désigné et le conseil secondé sont tous deux rattachés.

(4) La demande conjointe précise les éléments d'actif, les éléments de passif et les employés dont elle fait l'objet et indique pour chacun d'eux s'il devrait être transféré ou muté au conseil secondé ou rester avec le conseil désigné.

(5) The joint request may include representations respecting the proposed disposition, including but not limited to representations respecting,

- (a) the timing of any transfer; and
- (b) the terms and conditions to which the transfer order should be subject.

AUTHORITY OF COMMISSION TO MAKE ORDER  
ON JOINT REQUEST

8. (1) The Commission may make an order under this Part determining the disposition of assets, liabilities and employees that are the subject of a joint request.

(2) Subject to subsections (4) and (5) and section 9, the order may be in accordance with the joint request or may vary from it, as the Commission considers appropriate having regard to,

- (a) the needs of the designated board;
- (b) the needs of the supported board; and
- (c) where applicable, the interests described in subsection 33 (4).

(3) In addition to the matters mentioned in clauses (2) (a) to (c), in the case of an order respecting an employee, the Commission may take into account the preferences of the employee where the Commission considers it appropriate to do so.

(4) Subject to subsections (5) and (6) and section 9, the order,

- (a) shall specify the time at which the disposition of each asset, liability or employee is to take effect; and
- (b) may be made subject to the terms and conditions that the Commission considers appropriate having regard to the matters referred to in clauses (2) (a) to (c).

(5) The Commission shall not make an order respecting any asset, liability or employee under this Part unless,

- (a) the Commission is satisfied that the order will not unduly impair the ability of the designated board to exercise its powers, carry out its duties and conduct its day-to-day operations;
- (b) the Commission is satisfied that the supported board will be able to discharge its administrative and operational responsibilities for the assets, liabilities and employees that will be transferred to it under the order; and
- (c) the designated board and the supported board state in writing that they agree with the order.

(6) In addition, the Commission shall not make an order under this Part determining whether an employee is to be transferred to a supported board or is to remain with a designated board unless,

- (a) the employee agrees to the determination in writing;
- (b) the employee has been notified in accordance with directives issued by the Commission of the proposal with respect to him or her in the joint request, 15 days have elapsed from the notification and no dispute resolution process is ongoing under Part V with respect to the employee; or

(5) La demande conjointe peut comprendre des observations au sujet de l'affectation proposée, notamment :

- a) la date du transfert ou de la mutation;
- b) les conditions auxquelles l'ordonnance de transfert ou de mutation devrait être assujettie.

POUVOIR DE LA COMMISSION DE PRENDRE UNE ORDONNANCE  
SUR DEMANDE CONJOINTE

8. (1) La Commission peut prendre une ordonnance en vertu de la présente partie déterminant l'affectation des éléments d'actif, des éléments de passif et des employés dont fait l'objet une demande conjointe.

(2) Sous réserve des paragraphes (4) et (5) et de l'article 9, l'ordonnance peut être conforme à la demande conjointe ou s'en écarter, selon ce que la Commission juge approprié compte tenu de ce qui suit :

- a) les besoins du conseil désigné;
- b) les besoins du conseil secondé;
- c) les intérêts visés au paragraphe 33 (4), le cas échéant.

(3) Outre les questions mentionnées aux alinéas (2) a) à c), dans le cas d'une ordonnance à l'égard d'un employé, la Commission peut tenir compte des préférences de l'employé si elle le juge approprié.

(4) Sous réserve des paragraphes (5) et (6) et de l'article 9, l'ordonnance :

- a) précise la date à laquelle l'affectation de chaque élément d'actif, élément de passif ou employé doit prendre effet;
- b) peut être assujettie aux conditions que la Commission juge appropriées compte tenu des questions visées aux alinéas (2) a) à c).

(5) La Commission ne doit pas prendre d'ordonnance en vertu de la présente partie relativement à un élément d'actif, à un élément de passif ou à un employé à moins que les conditions suivantes ne soient réunies :

- a) elle est convaincue que l'ordonnance ne nuira pas indûment à la capacité du conseil désigné d'exercer ses pouvoirs et fonctions et de mener ses activités courantes;
- b) elle est convaincue que le conseil secondé pourra s'acquitter de ses responsabilités administratives et opérationnelles à l'égard des éléments d'actif, des éléments de passif et des employés qui seront transférés ou mutés au conseil secondé aux termes de l'ordonnance;
- c) le conseil désigné et le conseil secondé déclarent par écrit qu'ils sont d'accord avec l'ordonnance.

(6) En outre, la Commission ne doit pas prendre d'ordonnance en vertu de la présente partie déterminant si un employé doit être muté à un conseil secondé ou rester avec un conseil désigné sauf si, selon le cas :

- a) l'employé accepte par écrit la décision;
- b) l'employé a été avisé, conformément aux directives de la Commission, de la proposition qui le concerne dans la demande conjointe, 15 jours se sont écoulés depuis le moment où il a été avisé et aucune procédure de règlement des différends n'est en cours aux termes de la partie V à l'égard de l'employé;



- (c) the employee has been the subject of a dispute resolution process under Part V and that process is no longer ongoing, whether because of the issuance of a notice under section 13 or because the process as established by the Commission's directives has been completed.

**TIMING OF ORDERS ON  
JOINT REQUEST**

**9.** (1) Subject to subsection (2), an order under this Part determining the disposition of an asset, liability or employee shall not be made after August 31, 1998 and shall not provide for the transfer of any asset, liability or employee after August 31, 1998.

(2) The Commission may make an order under this Part determining the disposition of an asset or liability at any time before January 1, 1999 if, on August 31, 1998, a dispute resolution process under Part V as to the disposition is ongoing.

(3) An order made under subsection (2) shall not provide for the transfer of any asset or liability after December 31, 1998.

**PART V  
DISPUTE RESOLUTION PROCESS**

**10.** (1) The Commission shall establish a process for resolving disputes with respect to the holding in trust, transfer and vesting of assets, the transfer of liabilities and the transfer of employees of old boards to and among district school boards.

(2) A hearing under the dispute resolution process, whether written or oral, shall be held by the Commission or by a panel, established under section 27, of one or more members of the Commission.

(3) The Commission may issue directives for the purpose of implementing the dispute resolution process.

**11.** (1) The Commission shall take such steps and issue such directives as it considers necessary to ensure that, by August 31, 1998, all dispute resolution processes respecting employees,

- (a) are completed in accordance with the Commission's directives establishing the dispute resolution process; or
- (b) are discontinued because of the issuance of a notice under section 13.

(2) The Commission shall take such steps and issue such directives as it considers necessary to ensure that, by December 31, 1998, all dispute resolution processes respecting assets and liabilities,

- (a) are completed in accordance with the Commission's directives establishing the dispute resolution process; or
- (b) are discontinued because of the issuance of a notice under section 13.

**12.** (1) Subject to section 13, the dispute resolution process applies to every asset and liability associated with an old board the disposition of which has not been determined by an order under Part IV before April 1, 1998.

(2) Subject to section 13, the dispute resolution process applies to every employee associated with an old board whose disposition has not been determined by an order under Part IV before March 1, 1998.

- (c) l'employé a fait l'objet d'une procédure de règlement des différends aux termes de la partie V et cette procédure a pris fin, soit parce qu'un avis a été donné aux termes de l'article 13, soit parce que la procédure, telle qu'elle est établie dans les directives de la Commission, a été menée à terme.

**DATE LIMITE DE PRISE DES ORDONNANCES  
SUR DEMANDE CONJOINTE**

**9.** (1) Sous réserve du paragraphe (2), une ordonnance déterminant l'affectation d'un élément d'actif, d'un élément de passif ou d'un employé ne doit pas être prise en vertu de la présente partie après le 31 août 1998 et ne doit pas prévoir le transfert d'un élément d'actif ou de passif ni la mutation d'un employé après cette date.

(2) La Commission peut prendre une ordonnance en vertu de la présente partie déterminant l'affectation d'un élément d'actif ou de passif avant le 1<sup>er</sup> janvier 1999 si, le 31 août 1998, une procédure de règlement des différends est en cours à ce sujet aux termes de la partie V.

(3) L'ordonnance prévue au paragraphe (2) ne doit pas prévoir le transfert d'un élément d'actif ou de passif après le 31 décembre 1998.

**PARTIE V  
MÉTHODE DE RÈGLEMENT DES DIFFÉRENDS**

**10.** (1) La Commission établit une méthode de règlement des différends en ce qui concerne la détention en fiducie, le transfert et la dévolution des éléments de l'actif des anciens conseils, le transfert des éléments de leur passif et la mutation de leurs employés aux conseils scolaires de district.

(2) La Commission ou un comité d'un ou de plusieurs de ses membres constitué en vertu de l'article 27 tient les audiences, écrites ou orales, qui ont lieu conformément à la méthode de règlement des différends.

(3) La Commission peut donner des directives visant à mettre en œuvre la méthode de règlement des différends.

**11.** (1) La Commission prend les mesures et donne les directives qu'elle juge nécessaires pour veiller à ce qu'au plus tard le 31 août 1998, toutes les procédures de règlement des différends portant sur des employés :

- a) ou bien soient menées à terme conformément à ses directives sur l'établissement de la méthode de règlement des différends;
- b) ou bien soient abandonnées parce qu'un avis a été donné aux termes de l'article 13.

(2) La Commission prend les mesures et donne les directives qu'elle juge nécessaires pour veiller à ce qu'au plus tard le 31 décembre 1998, toutes les procédures de règlement des différends portant sur des éléments d'actif et des éléments de passif :

- a) ou bien soient menées à terme conformément à ses directives sur l'établissement de la méthode de règlement des différends;
- b) ou bien soient abandonnées parce qu'un avis a été donné aux termes de l'article 13.

**12.** (1) Sous réserve de l'article 13, la méthode de règlement des différends s'applique à chaque élément d'actif et élément de passif qui est rattaché à un ancien conseil et au sujet duquel une ordonnance déterminant son affectation n'a pas été prise en vertu de la partie IV avant le 1<sup>er</sup> avril 1998.

(2) Sous réserve de l'article 13, la méthode de règlement des différends s'applique à chaque employé qui est rattaché à un ancien conseil et au sujet duquel une ordonnance déterminant son affectation n'a pas été prise en vertu de la partie IV avant le 1<sup>er</sup> mars 1998.



(3) Subject to section 13, the dispute resolution process applies to every asset, liability or employee in respect of which notice is given under subsection (4).

(4) A designated board associated with an old board or a supported board associated with an old board may, in accordance with the directives issued under section 10, give written notice invoking the dispute resolution process in respect of any asset, liability or employee associated with the old board.

(5) A notice under subsection (4) may be given in respect of an asset or liability at any time before April 1, 1998 and in respect of an employee at any time before March 1, 1998.

(6) Subject to section 13, the dispute resolution process applies to every employee in respect of whom notice is given under subsection (7).

(7) An employee associated with an old board may, in accordance with the directives issued under section 10, give written notice invoking the dispute resolution process in respect of himself or herself.

(8) A notice under subsection (7) may be given at any time before March 1, 1998.

**13.** (1) The Commission shall monitor all dispute resolution processes in order to identify, in each case as soon as is reasonably possible,

- (a) each asset or liability with respect to which there is agreement between the supported board and the designated board; and
- (b) each employee with respect to whom there is agreement among the employee, the supported board and the designated board.

(2) The Commission shall issue such directives as it considers appropriate to assist it in carrying out its obligations under subsection (1).

(3) When the Commission identifies an asset, liability or employee under subsection (1), the Commission shall, as soon as reasonably possible, issue a written notice to that effect.

(4) The notice under subsection (3) shall be given to the supported board and the designated board.

(5) Where the notice under subsection (3) relates to an employee, the notice shall also be given to the employee.

(6) The dispute resolution process ceases to apply to an asset, liability or employee when the Commission issues,

- (a) a notice under subsection (3); or
- (b) an order under this Regulation determining the disposition of the asset, liability or employee.

#### **PART VI ORDERS WITHOUT JOINT REQUEST**

**14.** (1) At any time before August 31, 1998, the Commission may make an order determining the disposition of any asset, liability or employee associated with an old board the disposition of which has not been determined by an order made under this Regulation if,

- (a) the asset, liability or employee has been the subject of a dispute resolution process under Part V; and
- (b) that asset, liability or employee is no longer the subject of the dispute resolution process, whether because of the issuance of a

(3) Sous réserve de l'article 13, la méthode de règlement des différends s'applique à chaque élément d'actif, élément de passif ou employé à l'égard duquel un avis est donné en vertu du paragraphe (4).

(4) Un conseil désigné ou un conseil secondé qui est rattaché à un ancien conseil peut, conformément aux directives données en vertu de l'article 10, donner un avis écrit dans lequel il fait appel à la méthode de règlement des différends à l'égard d'un élément d'actif, d'un élément de passif ou d'un employé rattaché à l'ancien conseil.

(5) L'avis prévu au paragraphe (4) peut être donné avant le 1<sup>er</sup> avril 1998 à l'égard d'un élément d'actif ou de passif et avant le 1<sup>er</sup> mars 1998 à l'égard d'un employé.

(6) Sous réserve de l'article 13, la méthode de règlement des différends s'applique à chaque employé à l'égard duquel un avis est donné en vertu du paragraphe (7).

(7) Un employé rattaché à un ancien conseil peut, conformément aux directives données en vertu de l'article 10, donner un avis écrit dans lequel il fait appel à la méthode de règlement des différends à son égard.

(8) L'avis prévu au paragraphe (7) peut être donné avant le 1<sup>er</sup> mars 1998.

**13.** (1) La Commission surveille toutes les procédures de règlement des différends afin d'identifier, dès que raisonnablement possible :

- a) chaque élément d'actif ou de passif sur lequel s'entendent le conseil secondé et le conseil désigné;
- b) chaque employé sur lequel s'entendent le conseil secondé, le conseil désigné et l'employé.

(2) La Commission donne les directives qu'elle juge appropriées pour l'aider à s'acquitter des obligations que lui impose le paragraphe (1).

(3) Lorsqu'elle identifie un élément d'actif, un élément de passif ou un employé aux termes du paragraphe (1), la Commission donne, dès que raisonnablement possible, un avis écrit à cet effet.

(4) L'avis prévu au paragraphe (3) est donné au conseil secondé et au conseil désigné.

(5) Si l'avis prévu au paragraphe (3) a trait à un employé, il est aussi donné à celui-ci.

(6) Une procédure de règlement des différends cesse de s'appliquer à un élément d'actif, à un élément de passif ou à un employé lorsque la Commission :

- a) soit donne l'avis prévu au paragraphe (3);
- b) soit prend une ordonnance aux termes du présent règlement déterminant l'affectation de l'élément d'actif, de l'élément de passif ou de l'employé.

#### **PARTIE VI ORDONNANCES SANS DEMANDE CONJOINTE**

**14.** (1) La Commission peut, avant le 31 août 1998, prendre une ordonnance déterminant l'affectation d'un élément d'actif, d'un élément de passif ou d'un employé rattaché à un ancien conseil dans les cas où une ordonnance n'a pas été prise à ce sujet aux termes du présent règlement si :

- a) d'une part, l'élément d'actif, l'élément de passif ou l'employé a fait l'objet d'une procédure de règlement des différends aux termes de la partie V;
- b) d'autre part, l'élément d'actif, l'élément de passif ou l'employé ne fait plus l'objet de la procédure de règlement des différends, soit parce qu'un avis a été donné aux termes de l'article 13, soit

notice under section 13 or because the process as established by the Commission's directives has been completed.

(2) An order made under subsection (1) shall not provide for the transfer of any asset, liability or employee after August 31, 1998.

15. (1) On August 31, 1998, the Commission shall make an order determining the disposition of each employee associated with an old board whose disposition has not been determined by an order made under this Regulation.

(2) An order made under subsection (1) shall not provide for the transfer of any employee after August 31, 1998.

(3) Subsection (4) applies if the dispute resolution process under Part V in respect of an asset or liability is no longer ongoing, whether because of the issuance of a notice under section 13 or because the process as established by the Commission's directives has been completed.

(4) On August 31, 1998, the Commission shall make an order determining the disposition of each asset or liability associated with an old board the disposition of which has not been determined by an order made under this Regulation.

(5) An order made under subsection (4) shall not provide for the transfer of any asset or liability after August 31, 1998.

16. (1) At any time after August 31, 1998 and before December 31, 1998, the Commission may make an order determining the disposition of any asset or liability associated with an old board the disposition of which has not been determined by an order made under this Regulation, if the dispute resolution process under Part V in respect of the asset or liability is no longer ongoing, whether because of the issuance of a notice under section 13 or because the process as established by the Commission's directives has been completed.

(2) An order made under subsection (1) shall not provide for the transfer of any asset or liability after December 31, 1998.

17. (1) On December 31, 1998, the Commission shall make an order determining the disposition of each asset and liability associated with each old board the disposition of which has not been determined by an order made under this Regulation.

(2) An order made under subsection (1) shall not provide for the transfer of any asset or liability after December 31, 1998.

18. (1) In making an order under this Part, the Commission shall have regard to,

- (a) the needs of the designated board;
- (b) the needs of the supported board; and
- (c) where applicable, the interests described in subsection 33 (4).

(2) In making an order under this Part respecting an employee, the Commission may also take into account the preferences of the employee where the Commission considers it appropriate to do so.

(3) An order made under this Part shall specify, subject to subsections 14 (2), 15 (2), 15 (5), 16 (2) and 17 (2), the time at which the disposition of each asset, liability or employee is to take effect.

(4) An order made under this Part may be made subject to the terms and conditions that the Commission considers appropriate having regard to the matters referred to in clauses (1) (a) to (c).

parce que la procédure, telle qu'elle est établie dans les directives de la Commission, a été menée à terme.

(2) L'ordonnance prévue au paragraphe (1) ne doit pas prévoir le transfert d'un élément d'actif ou de passif ni la mutation d'un employé après le 31 août 1998.

15. (1) Le 31 août 1998, la Commission prend une ordonnance déterminant l'affectation de chaque employé rattaché à un ancien conseil dans les cas où une ordonnance n'a pas été prise à ce sujet aux termes du présent règlement.

(2) L'ordonnance prévue au paragraphe (1) ne doit pas prévoir la mutation d'un employé après le 31 août 1998.

(3) Le paragraphe (4) s'applique si la procédure de règlement des différends engagée aux termes de la partie V à l'égard d'un élément d'actif ou de passif a pris fin, soit parce qu'un avis a été donné aux termes de l'article 13, soit parce que la procédure, telle qu'elle est établie dans les directives de la Commission, a été menée à terme.

(4) Le 31 août 1998, la Commission prend une ordonnance déterminant l'affectation de chaque élément d'actif ou de passif rattaché à un ancien conseil dans les cas où une ordonnance n'a pas été prise à ce sujet aux termes du présent règlement.

(5) L'ordonnance prévue au paragraphe (4) ne doit pas prévoir le transfert d'un élément d'actif ou de passif après le 31 août 1998.

16. (1) La Commission peut, après le 31 août 1998 mais avant le 31 décembre 1998, prendre une ordonnance déterminant l'affectation de tout élément d'actif ou de passif rattaché à un ancien conseil dans les cas où une ordonnance n'a pas été prise à ce sujet aux termes du présent règlement si la procédure de règlement des différends engagée aux termes de la partie V à l'égard de l'élément d'actif ou de passif a pris fin, soit parce qu'un avis a été donné aux termes de l'article 13, soit parce que la procédure, telle qu'elle est établie dans les directives de la Commission, a été menée à terme.

(2) L'ordonnance prévue au paragraphe (1) ne doit pas prévoir le transfert d'un élément d'actif ou de passif après le 31 décembre 1998.

17. (1) Le 31 décembre 1998, la Commission prend une ordonnance déterminant l'affectation de chaque élément d'actif et élément de passif rattaché à chaque ancien conseil dans les cas où une ordonnance n'a pas été prise à ce sujet aux termes du présent règlement.

(2) L'ordonnance prévue au paragraphe (1) ne doit pas prévoir le transfert d'un élément d'actif ou de passif après le 31 décembre 1998.

18. (1) Lorsqu'elle prend une ordonnance aux termes de la présente partie, la Commission tient compte de ce qui suit :

- a) les besoins du conseil désigné;
- b) les besoins du conseil secondé;
- c) les intérêts visés au paragraphe 33 (4), le cas échéant.

(2) Lorsqu'elle prend une ordonnance aux termes de la présente partie à l'égard d'un employé, la Commission peut aussi tenir compte des préférences de l'employé si elle le juge approprié.

(3) L'ordonnance prise aux termes de la présente partie précise, sous réserve des paragraphes 14 (2), 15 (2), 15 (5), 16 (2) et 17 (2), la date à laquelle l'affectation de chaque élément d'actif, élément de passif ou employé doit prendre effet.

(4) L'ordonnance prise aux termes de la présente partie peut être assujettie aux conditions que la Commission juge appropriées compte tenu des questions visées aux alinéas (1) a) à c).



**PART VII  
PAYMENT BY SUPPORTED BOARD FOR  
SERVICES OF DESIGNATED BOARD**

**DEFINITIONS**

**19.** In this Part,

“designated board’s actual costs” means the actual costs incurred by a designated board associated with an old board in managing the assets, liabilities and employees associated with the old board; (“frais réels”)

“exclusive jurisdiction costs” means costs incurred by a designated board for which payment is required under section 20; (“frais de compétence exclusive”)

“1997 expenditure allocation form” means the form that,

- (a) is referred to in the B4 memorandum to directors of education dated November 18, 1997; and
- (b) was provided by the Ministry for the purpose of determining the French-English split of 1997 expenditures by old boards; (“formule de répartition des dépenses pour 1997”)

“supported board’s common jurisdiction expenditure costs” means the common jurisdiction expenditure costs of a supported board associated with an old board, as calculated under the legislative grant regulation applicable to the period beginning January 1, 1998 and ending August 31, 1998. (“frais qui incombent au conseil secondé au titre des dépenses de compétence commune”)

**EXCLUSIVE JURISDICTION EXPENDITURES FOR  
JANUARY 1, 1998 TO AUGUST 31, 1998**

**20.** (1) This section applies where the old board that was merged under section 2 with a designated board had a minority language section within the meaning of the Act, as it read immediately before January 1, 1998.

(2) The supported board associated with an old board shall pay to the designated board associated with the old board the total of the designated board’s actual costs incurred during the period beginning January 1, 1998 and ending August 31, 1998 for matters listed as exclusive jurisdiction expenditures on the 1997 expenditure allocation form for the old board.

**COMMON JURISDICTION EXPENDITURES FOR JANUARY 1, 1998  
TO AUGUST 31, 1998 WHERE NO TRANSFER  
OCCURS BEFORE AUGUST 31, 1998**

**21.** (1) This section applies whether or not the old board that was merged under section 2 with a designated board had a minority language section within the meaning of the Act, as it read immediately before January 1, 1998.

(2) This section applies in respect of the period beginning January 1, 1998 and ending August 31, 1998 where, throughout that period, no asset, liability or employee associated with an old board is transferred from the designated board associated with the old board to the supported board associated with the old board.

(3) The supported board associated with an old board shall pay to the designated board associated with the old board the supported board’s common jurisdiction expenditure costs.

**PARTIE VII  
REMBOURSEMENT, PAR LE CONSEIL SECONDÉ,  
DES SERVICES FOURNIS PAR LE CONSEIL DÉSIGNÉ**

**DÉFINITIONS**

**19.** Les définitions qui suivent s’appliquent à la présente partie.

«formule de répartition des dépenses pour 1997» La formule :

- a) qui est mentionnée dans la note de service B4 du 18 novembre 1997 à l’intention des directrices et directeurs de l’éducation;
- b) qui a été fournie par le ministère pour déterminer la répartition des dépenses en 1997 entre la section française et la section anglaise des anciens conseils. («1997 expenditure allocation form»)

«frais de compétence exclusive» Les frais qu’engage un conseil désigné et dont le remboursement est exigé par l’article 20. («exclusive jurisdiction costs»)

«frais qui incombent au conseil secondé au titre des dépenses de compétence commune» Les frais qui incombent à un conseil secondé qui est rattaché à un ancien conseil au titre des dépenses de compétence commune, calculés aux termes du règlement sur les subventions générales applicable à la période comprise entre le 1<sup>er</sup> janvier 1998 et le 31 août 1998. («supported board’s common jurisdiction expenditure costs»)

«frais réels» Les frais réels qu’engage un conseil désigné qui est rattaché à un ancien conseil pour gérer les éléments d’actif, les éléments de passif et les employés rattachés à l’ancien conseil. («designated board’s actual costs»)

**DÉPENSES DE COMPÉTENCE EXCLUSIVE POUR  
LA PÉRIODE COMPRISE  
ENTRE LE 1<sup>er</sup> JANVIER 1998 ET LE 31 AOÛT 1998**

**20.** (1) Le présent article s’applique lorsque l’ancien conseil qui a fusionné avec un conseil désigné aux termes de l’article 2 comprenait une section de la minorité linguistique au sens de la Loi, telle qu’elle existait immédiatement avant le 1<sup>er</sup> janvier 1998.

(2) Le conseil secondé qui est rattaché à un ancien conseil rembourse au conseil désigné qui est rattaché à l’ancien conseil la totalité des frais réels que le conseil désigné a engagés au cours de la période comprise entre le 1<sup>er</sup> janvier 1998 et le 31 août 1998 au titre des éléments énumérés comme dépenses de compétence exclusive sur la formule de répartition des dépenses pour 1997 de l’ancien conseil.

**DÉPENSES DE COMPÉTENCE COMMUNE POUR LA PÉRIODE COMPRISE  
ENTRE LE 1<sup>er</sup> JANVIER 1998 ET LE 31 AOÛT 1998  
EN L’ABSENCE DE TRANSFERT OU DE MUTATION AVANT LE 31 AOÛT 1998**

**21.** (1) Le présent article s’applique peu importe si l’ancien conseil qui a fusionné avec un conseil désigné aux termes de l’article 2 comprenait ou non une section de la minorité linguistique au sens de la Loi, telle qu’elle existait immédiatement avant le 1<sup>er</sup> janvier 1998.

(2) Le présent article s’applique à l’égard de la période comprise entre le 1<sup>er</sup> janvier 1998 et le 31 août 1998 lorsque, au cours de cette période, aucun élément d’actif, élément de passif ni employé rattaché à un ancien conseil n’est transféré ou muté du conseil désigné qui est rattaché à l’ancien conseil au conseil secondé qui est rattaché à celui-ci.

(3) Le conseil secondé qui est rattaché à un ancien conseil rembourse au conseil désigné qui est rattaché à l’ancien conseil les frais qui incombent au conseil secondé au titre des dépenses de compétence commune.



## OTHER EXPENDITURES

**22.** (1) This section applies whether or not the old board that was merged under section 2 with a designated board had a minority language section within the meaning of the Act, as it read immediately before January 1, 1998.

(2) This section applies to costs incurred by a designated board associated with an old board in respect of which payment is not provided by section 20 or 21.

(3) Examples of costs to which this section applies include:

1. Costs, other than exclusive jurisdiction costs, in respect of the period beginning January 1, 1998 and ending August 31, 1998 where, during that period, one or more assets, liabilities or employees associated with the old board are transferred from the designated board associated with the old board to the supported board associated with the old board.
2. Costs in respect of the period beginning January 1, 1998 and ending August 31, 1998 where the old board had no minority language section and was, immediately before January 1, 1998, purchasing English-language or French-language educational programs or services, as the case may be, for its minority language pupils.
3. Costs in respect of the period beginning September 1, 1998 and ending December 31, 1998.

(4) The supported board associated with an old board shall pay to the designated board associated with the old board amounts determined in accordance with directives issued by the Commission under subsection (5).

(5) The Commission shall issue directives respecting the amounts payable under subsection (4), in order to provide for payments by the supported board to the designated board in respect of costs incurred by the designated board in meeting requirements under Part III of this Regulation.

**23.** (1) This section applies to district school boards affected by the operation of section 6 or 33.

(2) A district school board shall pay to another district school board amounts determined in accordance with directives issued by the Commission under subsection (3).

(3) The Commission shall issue directives respecting amounts payable under subsection (2), in order to provide for payments by one district school board to another district school board in respect of costs incurred by the second district school board in meeting requirements under clause 58.1 (2) (q) of the Act.

(4) A directive under subsection (3) may provide for an adjustment of amounts that would otherwise be payable under section 20, 21 or 22.

## DISPUTE RESOLUTION

**24.** (1) The Commission shall establish a process for resolving disputes with respect to payments to be made under this Part.

(2) The Commission may issue directives for the purpose of implementing the dispute resolution process.

## AUTRES DÉPENSES

**22.** (1) Le présent article s'applique peu importe si l'ancien conseil qui a fusionné avec un conseil désigné aux termes de l'article 2 comprenait ou non une section de la minorité linguistique au sens de la Loi, telle qu'elle existait immédiatement avant le 1<sup>er</sup> janvier 1998.

(2) Le présent article s'applique aux frais qu'un conseil désigné qui est rattaché à un ancien conseil a engagés et dont l'article 20 ou 21 ne prévoit pas le remboursement.

(3) Suivent des exemples de frais auxquels s'applique le présent article :

1. Les frais, à l'exception des frais de compétence exclusive, relatifs à la période comprise entre le 1<sup>er</sup> janvier 1998 et le 31 août 1998 lorsque, au cours de cette période, un ou plusieurs éléments d'actif, éléments de passif ou employés rattachés à l'ancien conseil sont transférés ou mutés du conseil désigné qui est rattaché à l'ancien conseil au conseil secondé qui est rattaché à celui-ci.
2. Les frais relatifs à la période comprise entre le 1<sup>er</sup> janvier 1998 et le 31 août 1998 lorsque l'ancien conseil ne comprenait pas de section de la minorité linguistique et qu'il achetait, immédiatement avant le 1<sup>er</sup> janvier 1998, des programmes ou services éducatifs de langue française ou anglaise, selon le cas, pour les élèves de sa minorité linguistique.
3. Les frais relatifs à la période comprise entre le 1<sup>er</sup> septembre 1998 et le 31 décembre 1998.

(4) Le conseil secondé qui est rattaché à un ancien conseil verse au conseil désigné qui est rattaché à l'ancien conseil les sommes calculées conformément aux directives que la Commission donne aux termes du paragraphe (5).

(5) La Commission donne des directives relativement aux sommes exigibles aux termes du paragraphe (4) afin de prévoir les remboursements que le conseil secondé doit faire au conseil désigné au titre des frais que celui-ci a engagés pour respecter les exigences prévues par la partie III du présent règlement.

**23.** (1) Le présent article s'applique aux conseils scolaires de district qui tombent sous le coup de l'article 6 ou 33.

(2) Un conseil scolaire de district verse à un autre conseil scolaire de district les sommes calculées conformément aux directives que la Commission donne aux termes du paragraphe (3).

(3) La Commission donne des directives relativement aux sommes exigibles aux termes du paragraphe (2) afin de prévoir les remboursements qu'un conseil scolaire de district doit faire à un autre conseil scolaire de district au titre des frais que celui-ci a engagés pour respecter les exigences prévues à l'alinéa 58.1 (2) q) de la Loi.

(4) Les directives prévues au paragraphe (3) peuvent prévoir le rajustement des sommes qui seraient exigibles par ailleurs aux termes de l'article 20, 21 ou 22.

## RÈGLEMENT DES DIFFÉRENDS

**24.** (1) La Commission établit une méthode de règlement des différends portant sur les remboursements qui doivent être faits aux termes de la présente partie.

(2) La Commission peut donner des directives visant à mettre en œuvre la méthode de règlement des différends.

## GENERAL

25. (1) On application made from time to time by a supported board associated with an old board or a designated board associated with an old board, the Commission may order payments to be made or accounts to be adjusted for the purpose of ensuring that the requirements of this Part are met.

(2) An order under this section may be made subject to the terms and conditions that the Commission considers appropriate.

(3) An order under this section shall be in respect of costs incurred during the period beginning January 1, 1998 and ending December 31, 1998.

(4) An order under this section may be made at any time before September 1, 1999.

26. (1) The Commission may issue directives respecting the making of interim or periodic payments under this Part.

(2) Without limiting the generality of subsection (1), the directives may require interim or periodic payments to be made in respect of matters listed as common jurisdiction expenditures on the 1997 expenditure allocation form, before the legislative grant regulation applicable to the period beginning January 1, 1998 and ending August 31, 1998 is made.

(3) The directives may include provisions respecting the payment of interest and the allowance of discounts in circumstances specified in the directives.

(4) Where the directives include provisions respecting interest payments and discount allowances, the rate of interest payable or the rate of discount allowable, as the case may be, is the lowest prime rate reported to the Bank of Canada by any of the banks listed in Schedule 1 to the *Bank Act* (Canada) at the relevant date.

#### PART VIII GENERAL POWERS AND DUTIES OF THE COMMISSION

27. The Commission may establish panels of one or more members to exercise specified powers and carry out specified duties of the Commission in the place of the Commission.

28. The Commission may issue directives respecting the procedures to be followed and deadlines to be met in connection with anything done under this Regulation.

29. Any directive issued under this Regulation may be general or particular.

30. (1) The Commission may vary any of its orders under this Regulation by varying the date on which the order, or any part of the order, is to take effect.

(2) Subsection (1) is subject to any provision of this Regulation that sets a date by which an order must be made or by which an order must take effect.

31. Where the Commission is required by this Regulation or the directives issued under it to give a notice to an employee and the employee is represented by a bargaining agent for collective bargaining purposes, the Commission shall also give the notice to the bargaining agent.

32. (1) In addition to the powers and duties of the Commission under Parts II to VII of this Regulation, the Commission has the following powers and shall exercise the following duties:

## DISPOSITIONS GÉNÉRALES

25. (1) La Commission peut, sur présentation d'une demande à cet effet par un conseil secondé ou un conseil désigné qui est rattaché à un ancien conseil, ordonner le remboursement de sommes ou le rajustement de comptes afin d'assurer le respect des exigences de la présente partie.

(2) L'ordonnance prévue au présent article peut être assujettie aux conditions que la Commission juge appropriées.

(3) L'ordonnance prévue au présent article porte sur les frais engagés au cours de la période comprise entre le 1<sup>er</sup> janvier 1998 et le 31 décembre 1998.

(4) L'ordonnance prévue au présent article peut être prise avant le 1<sup>er</sup> septembre 1999.

26. (1) La Commission peut donner des directives exigeant que des paiements provisoires ou périodiques soient faits aux termes de la présente partie.

(2) Sans préjudice de la portée générale du paragraphe (1), les directives peuvent exiger que des paiements provisoires ou périodiques soient faits au titre des éléments énumérés comme dépenses de compétence commune sur la formule de répartition des dépenses pour 1997, avant la prise du règlement sur les subventions générales applicable à la période comprise entre le 1<sup>er</sup> janvier 1998 et le 31 août 1998.

(3) Les directives peuvent comprendre des dispositions relatives au versement d'intérêts et à l'octroi de remises dans les circonstances qu'elles précisent.

(4) Lorsque les directives comprennent des dispositions relatives au versement d'intérêts et à l'octroi de remises, le taux d'intérêt ou de remise, selon le cas, correspond au taux préférentiel le plus bas signalé à la Banque du Canada à la date pertinente par une des banques mentionnées à l'annexe 1 de la *Loi sur les banques* (Canada).

#### PARTIE VIII POUVOIRS ET FONCTIONS GÉNÉRAUX DE LA COMMISSION

27. La Commission peut constituer des comités d'un ou de plusieurs membres chargés d'exercer des pouvoirs et fonctions précis de la Commission à sa place.

28. La Commission peut donner des directives relativement aux modalités à suivre et aux délais à respecter en ce qui concerne tout acte accompli aux termes du présent règlement.

29. Les directives données aux termes du présent règlement peuvent avoir une portée générale ou particulière.

30. (1) La Commission peut modifier toute ordonnance qu'elle prend aux termes du présent règlement en changeant la date à laquelle l'ordonnance, ou une de ses parties, doit prendre effet.

(2) Le paragraphe (1) est assujetti à toute disposition du présent règlement qui fixe la date la plus tardive à laquelle une ordonnance doit être prise ou prendre effet.

31. Si le présent règlement ou les directives données aux termes de celui-ci exigent qu'elle donne un avis à un employé et que ce dernier est représenté par un agent négociateur aux fins de la négociation collective, la Commission donne aussi l'avis à l'agent négociateur.

32. (1) Outre les pouvoirs et fonctions que lui attribuent les parties II à VII du présent règlement, la Commission exerce les pouvoirs et les fonctions suivants :



1. The power and duty to issue directives to district school boards and other classes of persons or bodies specified by the Commission respecting criteria to be applied and processes to be followed in developing recommendations to the Commission with respect to any matter referred to in clauses 58.1 (2) (p) and 58.2 (1) (b) and (c) of the Act.
2. The power and duty to issue directives respecting the participation of classes of persons or bodies specified by the Commission in the development of recommendations referred to in paragraph 1.
3. The power and duty to make determinations respecting the holding in trust, transfer and vesting of assets, the transfer of liabilities and the transfer of employees of old boards to and among district school boards for the purpose of making orders under this Regulation.
4. The power and duty to determine by or against which district school boards legal and other proceedings commenced by or against old boards shall be continued.
5. The power and duty to determine by or against which district school boards orders or determinations of a court or other authority affecting old boards shall be enforced.
6. The power and duty to issue orders that the Commission considers necessary or advisable to give effect to the determinations made under this section and to impose terms and conditions on its orders.

(2) Without limiting the generality of paragraph 4, a determination under paragraph 4 may substitute or add persons as parties to a proceeding continued under paragraph 4.

(3) Without limiting the generality of paragraph 5, a determination under paragraph 5 may substitute or add persons against which or by which an order or determination referred to under paragraph 5 may be enforced.

#### PART IX TRANSFERS BETWEEN PUBLIC BOARDS AND ROMAN CATHOLIC BOARDS

33. (1) In this section,

“Schedule 2 public old board” means an old board listed in column 2 of Schedule 2; (“ancien conseil public mentionné à l’annexe 2”)

“Schedule 2 Roman Catholic old board” means an old board listed in column 1 of Schedule 2. (“ancien conseil catholique mentionné à l’annexe 2”)

(2) This section applies where the area of jurisdiction of a designated board that is a public district school board includes some or all of the area of jurisdiction of a Schedule 2 Roman Catholic old board.

(3) In making an order under this Regulation that affects a designated board referred to in subsection (2), the Commission shall take into account the interests of,

- (a) the designated board associated with the relevant Schedule 2 Roman Catholic old board; and
- (b) the supported board associated with the relevant Schedule 2 Roman Catholic old board.

(4) For the purposes of subsection (3), a designated board referred to in clause (3) (a) and a supported board referred to in clause (3) (b) has an interest in an asset or liability of the designated board referred to in

1. Donner des directives aux conseils scolaires de district et aux autres catégories de personnes ou d’organismes qu’elle précise à l’égard des critères à appliquer et des méthodes à suivre lors de la formulation des recommandations qui lui sont faites relativement à toute question visée aux alinéas 58.1 (2) p) et 58.2 (1) b) et c) de la Loi.
2. Donner des directives à l’égard de la participation des catégories de personnes ou d’organismes qu’elle précise à la formulation des recommandations visées à la disposition 1.
3. Prendre des décisions à l’égard de la détention en fiducie, du transfert et de la dévolution des éléments de l’actif des anciens conseils, du transfert des éléments de leur passif et de la mutation de leurs employés aux conseils scolaires de district lorsqu’il s’agit de prendre des ordonnances aux termes du présent règlement.
4. Décider par ou contre quels conseils scolaires de district les instances judiciaires et autres introduites par ou contre des anciens conseils doivent être poursuivies.
5. Décider par ou contre quels conseils scolaires de district les ordonnances judiciaires et autres ordonnances, décrets, arrêtés ou décisions d’un tribunal ou d’une autre instance touchant des anciens conseils doivent être exécutés.
6. Prendre les ordonnances qu’elle estime nécessaires ou souhaitables pour donner effet aux décisions prises aux termes du présent article et assortir ses ordonnances de conditions.

(2) Sans préjudice de la portée générale de la disposition 4, les décisions prises aux termes de cette disposition peuvent substituer ou ajouter des personnes comme parties aux instances poursuivies aux termes de cette disposition.

(3) Sans préjudice de la portée générale de la disposition 5, les décisions prises aux termes de cette disposition peuvent substituer ou ajouter des personnes contre ou par lesquelles les ordonnances, décrets, arrêtés ou décisions visés à cette disposition peuvent être exécutés.

#### PARTIE IX TRANSFERTS ENTRE CONSEILS PUBLICS ET CONSEILS CATHOLIQUES

33. (1) Les définitions qui suivent s’appliquent au présent article.

«ancien conseil catholique mentionné à l’annexe 2» Ancien conseil mentionné dans la colonne 1 de l’annexe 2. («Schedule 2 Roman Catholic old board»)

«ancien conseil public mentionné à l’annexe 2» Ancien conseil mentionné dans la colonne 2 de l’annexe 2. («Schedule 2 public old board»)

(2) Le présent article s’applique lorsque le territoire de compétence d’un conseil désigné qui est un conseil scolaire de district public comprend la totalité ou une partie du territoire de compétence d’un ancien conseil catholique mentionné à l’annexe 2.

(3) Lorsqu’elle prend une ordonnance aux termes du présent règlement qui touche un conseil désigné visé au paragraphe (2), la Commission tient compte des intérêts des conseils suivants :

- a) le conseil désigné qui est rattaché à l’ancien conseil catholique mentionné à l’annexe 2 pertinent;
- b) le conseil secondé qui est rattaché à l’ancien conseil catholique mentionné à l’annexe 2 pertinent.

(4) Pour l’application du paragraphe (3), un conseil désigné visé à l’alinéa (3) a) et un conseil secondé visé à l’alinéa (3) b) ont un intérêt sur un élément d’actif ou de passif du conseil désigné visé au



subsection (2) only if, before January 1, 1998, the asset or liability related, in whole or in part, to the education of pupils,

(a) who attended a school of a Schedule 2 public old board listed in Schedule 2 opposite the relevant Schedule 2 Roman Catholic old board; and

(b) whose parent or guardian was a separate school supporter.

(5) Where the Commission considers it appropriate to do so having regard to the interests described in subsection (4), the Commission may transfer an asset or liability from the designated board referred to in subsection (2) to a designated board referred to in clause (3) (a) or a supported board referred to in clause (3) (b).

#### PART X REVOCATION AND COMMENCEMENT

34. Ontario Regulation 357/97 is revoked.

35. This Regulation comes into force on the day section 32 of the *Education Quality Improvement Act, 1997* comes into force.

paragraphe (2) seulement si, avant le 1<sup>er</sup> janvier 1998, l'élément d'actif ou de passif avait trait, en tout ou en partie, à l'enseignement dispensé aux élèves :

a) d'une part, qui fréquentaient une école relevant d'un ancien conseil public mentionné à l'annexe 2 en regard de l'ancien conseil catholique mentionné à l'annexe 2 pertinent;

b) d'autre part, dont le père, la mère ou le tuteur était contribuable des écoles séparées.

(5) Si la Commission le juge approprié compte tenu des intérêts visés au paragraphe (4), elle peut transférer un élément d'actif ou de passif du conseil désigné visé au paragraphe (2) à un conseil désigné visé à l'alinéa (3) a) ou à un conseil secondé visé à l'alinéa (3) b).

#### PARTIE X ABROGATION ET ENTRÉE EN VIGUEUR

34. Le Règlement de l'Ontario 357/97 est abrogé.

35. Le présent règlement entre en vigueur le jour où l'article 32 de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation* entre en vigueur.

#### Schedule 1/Annexe 1

ITEM/ POINT	COLUMN 1/COLONNE 1 OLD BOARDS/ ANCIENS CONSEILS	COLUMN 2/COLONNE 2 DESIGNATED BOARDS/ CONSEILS DÉSIGNÉS	COLUMN 3/COLONNE 3 SUPPORTED BOARDS/ CONSEILS SECONDÉS
1.	The Timmins Board of Education	1	56
2.	The Kapuskasing-Smooth Rock Falls and District Board of Education/Le conseil de l'éducation de Kapuskasing-Smooth Rock Falls et de son district	1	56
3.	The Hearst Board of Education	1	56
4.	The Cochrane-Iroquois Falls, Black River-Matheson Board of Education	1	56
5.	The Kirkland Lake Board of Education	1	56
6.	The Timiskaming Board of Education	1	56
7.	The Chapleau Board of Education	2	57
8.	The Michipicoten Board of Education	2	57
9.	The Sault Ste. Marie Board of Education	2	57
10.	The Central Algoma Board of Education	2	57
11.	The North Shore Board of Education	2	57
12.	The Hornepayne Board of Education	2	57
13.	The Sudbury Board of Education	3	57
14.	The Espanola Board of Education	3	57
15.	The Manitoulin Board of Education	3	57
16.	The Nipissing Board of Education	4	56
17.	The East Parry Sound Board of Education	4	56
18.	The West Parry Sound Board of Education	4	56
19.	The Kenora Board of Education	5A	57
20.	The Red Lake Board of Education	5A	57
21.	The Dryden Board of Education	5A	57
22.	The Fort Frances-Rainy River Board of Education	5B	57
23.	The Atikokan Board of Education	5B	57
24.	The Lakehead Board of Education	6A	57

	COLUMN 1/COLONNE 1	COLUMN 2/COLONNE 2	COLUMN 3/COLONNE 3
ITEM/ POINT	OLD BOARDS/ ANCIENS CONSEILS	DESIGNATED BOARDS/ CONSEILS DÉSIGNÉS	SUPPORTED BOARDS/ CONSEILS SECONDÉS
25.	The Beardmore, Geraldton, Longlac and Area Board of Education/Conseil de l'éducation de Beardmore, de Geraldton, de Longlac et des environs	6B	57
26.	The Nipigon-Red Rock Board of Education	6B	57
27.	The Lake Superior Board of Education/Le conseil scolaire du Lac Supérieur	6B	57
28.	The Bruce County Board of Education	7	58
29.	The Grey Board of Education	7	58
30.	The Huron County Board of Education	8	58
31.	The Perth County Board of Education	8	58
32.	The Board of Education for the City of Windsor	9	58
33.	The Essex County Board of Education	9	58
34.	The Kent County Board of Education	10	58
35.	The Lambton County Board of Education/Conseil de l'éducation du comté de Lambton	10	58
36.	The Board of Education for the City of London/Le conseil de l'éducation de la ville de London	11	58
37.	The Middlesex Board of Education	11	58
38.	The Elgin County Board of Education	11	58
39.	The Oxford County Board of Education	11	58
40.	The Metropolitan Toronto School Board	12	58
41.	The Board of Education for the City of North York	12	58
42.	The Board of Education for the City of Scarborough	12	58
43.	The Board of Education for the City of Etobicoke	12	58
44.	The Board of Education for the City of Toronto	12	58
45.	The Board of Education for the City of York	12	58
46.	The Board of Education for the Borough of East York	12	58
47.	The Durham Board of Education	13	58
48.	The Northumberland & Clarington Board of Education	14	58
49.	The Peterborough County Board of Education	14	58
50.	The Victoria County Board of Education	15	58
51.	The Haliburton County Board of Education	15	58
52.	The Muskoka Board of Education	15	56
53.	The York Region Board of Education	16	58
54.	The Simcoe County Board of Education	17	58
55.	The Wellington County Board of Education	18	58
56.	The Dufferin County Board of Education	18	58
57.	The Peel Board of Education	19	58
58.	The Halton Board of Education	20	58
59.	The Board of Education for the City of Hamilton/Le conseil de l'éducation de la ville de Hamilton	21	58
60.	The Wentworth County Board of Education	21	58
61.	The Lincoln County Board of Education	22	58
62.	The Niagara South Board of Education/Conseil scolaire de Niagara Sud	22	58

	COLUMN 1/COLONNE 1	COLUMN 2/COLONNE 2	COLUMN 3/COLONNE 3
ITEM/ POINT	OLD BOARDS/ ANCIENS CONSEILS	DESIGNATED BOARDS/ CONSEILS DÉSIGNÉS	SUPPORTED BOARDS/ CONSEILS SECONDÉS
63.	The Haldimand Board of Education	23	58
64.	The Norfolk Board of Education	23	58
65.	The Brant County Board of Education	23	58
66.	The Waterloo County Board of Education	24	58
67.	The Ottawa Board of Education	25	
68.	The Carleton Board of Education	25	
69.	The Lanark County Board of Education	26	59
70.	The Leeds & Grenville County Board of Education	26	59
71.	The Prescott & Russell County Board of Education	26	59
72.	The Stormont, Dundas & Glengarry County Board of Education	26	59
73.	The Lennox & Addington County Board of Education	27	59
74.	The Frontenac County Board of Education	27	59
75.	The Renfrew County Board of Education	28	59
76.	The Prince Edward County Board of Education	29	59
77.	Hastings County Board of Education	29	59
78.	The Hearst District Roman Catholic Separate School Board	60A	30A
79.	The Cochrane, Iroquois Falls/Black River - Matheson District Roman Catholic Separate School Board	60A	30A
80.	The Timmins District Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques du district de Timmins	60A	30A
81.	The Kapuskasing District Roman Catholic Separate School Board/Conseil des écoles séparées catholiques du district de Kapuskasing	60A	30A
82.	The Kirkland Lake-Timiskaming District Roman Catholic Separate School Board/Conseil des écoles séparées catholiques du district de Kirkland Lake - Timiskaming	60A	30A
83.	The Nipissing District Roman Catholic Separate School Board	60B	30B
84.	The Sault Ste. Marie District Roman Catholic Separate School Board	31	61
85.	The Michipicoten District Roman Catholic Separate School Board	31	61
86.	The North Shore District Roman Catholic Separate School Board	31	61
87.	The Chapleau District Roman Catholic Separate School Board	61	31
88.	The Sudbury District Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques romaines de Sudbury	61	32
89.	The Fort Frances-Rainy River District Roman Catholic Separate School Board	33a	62
90.	The Dryden District Roman Catholic Separate School Board	33a	62
91.	The Kenora District Roman Catholic Separate School Board	33b	62
92.	The Lakehead District Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques du district de Lakehead	34a	62
93.	The Geraldton District Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques du district de Geraldton	34b	62
94.	The North of Superior District Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques du district Supérieur Nord	34b	62
95.	The Bruce-Grey County Roman Catholic Separate School Board	35	63
96.	The Huron-Perth County Roman Catholic Separate School Board	36	63
97.	The Windsor Roman Catholic Separate School Board/Le conseil de l'éducation catholique de Windsor	37	63



	COLUMN 1/COLONNE 1	COLUMN 2/COLONNE 2	COLUMN 3/COLONNE 3
ITEM/ POINT	OLD BOARDS/ ANCIENS CONSEILS	DESIGNATED BOARDS/ CONSEILS DÉSIGNÉS	SUPPORTED BOARDS/ CONSEILS SECONDÉS
98.	The Essex County Roman Catholic Separate School Board/Conseil des écoles séparées catholiques du comté d'Essex	37	63
99.	The London and Middlesex County Roman Catholic Separate School Board/Le conseil des écoles catholiques de London et du comté de Middlesex	38	63
100.	The Elgin County Roman Catholic Separate School Board	38	63
101.	The Oxford County Roman Catholic Separate School Board/Conseil des écoles séparées catholiques romaines du comté d'Oxford	38	63
102.	The Kent County Roman Catholic Separate School Board/Conseil des écoles séparées catholiques de Kent	39	63
103.	The Lambton County Roman Catholic Separate School Board/Conseil des écoles séparées catholiques du comté de Lambton	39	63
104.	The Metropolitan Separate School Board/Conseil des écoles catholiques du Grand Toronto	40	64
105.	The Peterborough, Victoria, Northumberland & Clarington Roman Catholic Separate School Board	41	64
106.	The York Region Roman Catholic Separate School Board/Conseil des écoles séparées catholiques de la région de York	42	64
107.	The Dufferin-Peel Roman Catholic Separate School Board/Conseil des écoles séparées catholiques de Dufferin & Peel	43	64
108.	The Simcoe County Roman Catholic Separate School Board	44	64
109.	The Durham Region Roman Catholic Separate School Board/Conseil des écoles séparées catholiques de la région de Durham	45	64
110.	The Halton Roman Catholic Separate School Board/Conseil des écoles catholiques de Halton	46	64
111.	The Hamilton-Wentworth Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques romaines de Hamilton-Wentworth	47	64
112.	The Wellington County Roman Catholic Separate School Board/Conseil des écoles séparées catholiques de Wellington	48	64
113.	The Waterloo Region Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques de la région de Waterloo	49	64
114.	The Lincoln County Roman Catholic Separate School Board/Le conseil des écoles catholiques du comté de Lincoln	50	64
115.	The Welland County Roman Catholic Separate School Board/Le conseil scolaire des écoles catholiques romaines du comté de Welland	50	64
116.	The Haldimand-Norfolk Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques de Haldimand-Norfolk	51	64
117.	The Brant County Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques du comté de Brant	51	64
118.	The Lanark, Leeds & Grenville County Roman Catholic Separate School Board	52	66
119.	The Prescott & Russell County Roman Catholic English-Language Separate School Board	52	
120.	The Stormont, Dundas and Glengarry County Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques des comtés de Stormont, Dundas et Glengarry	65	52
121.	The Ottawa Roman Catholic Separate School Board	53	
122.	The Carleton Roman Catholic Separate School Board	53	
123.	The Renfrew County Roman Catholic Separate School Board	54	66
124.	The Hastings-Prince Edward County Roman Catholic Separate School Board	55	66

	COLUMN 1/COLONNE 1	COLUMN 2/COLONNE 2	COLUMN 3/COLONNE 3
ITEM/ POINT	OLD BOARDS/ ANCIENS CONSEILS	DESIGNATED BOARDS/ CONSEILS DÉSIGNÉS	SUPPORTED BOARDS/ CONSEILS SECONDÉS
125.	The Frontenac-Lennox and Addington County Roman Catholic Separate School Board	55	66
126.	Conseil des écoles françaises de la communauté urbaine de Toronto/The Metropolitan Toronto French-Language School Council	12	58
127.	Le Conseil des écoles publiques d'Ottawa-Carleton	59	
128.	Conseil des écoles séparées catholiques de langue française de Prescott-Russell	65	
129.	Conseil des écoles catholiques de langue française de la région d'Ottawa-Carleton	66	

**Schedule 2/Annexe 2**

	COLUMN 1/COLONNE 1	COLUMN 2/COLONNE 2
ITEM/ POINT	OLD BOARDS/ ANCIENS CONSEILS	OLD BOARDS/ ANCIENS CONSEILS
1.	The Chapleau District Roman Catholic Separate School Board	The Chapleau Board of Education
2.	The Michipicoten District Roman Catholic Separate School Board	The Michipicoten Board of Education
3.	The North Shore District Roman Catholic Separate School Board	The North Shore Board of Education The Espanola Board of Education
4.	The Dryden District Roman Catholic Separate School Board	The Dryden Board of Education
5.	The Fort Frances-Rainy River District Roman Catholic Separate School Board	The Fort Frances-Rainy River Board of Education
6.	The Geraldton District Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques du district de Geraldton	The Beardmore, Geraldton, Longlac and Area Board of Education/Conseil de l'éducation de Beardmore, de Geraldton, de Longlac et des environs
7.	The North of Superior District Roman Catholic Separate School Board/Le conseil des écoles séparées catholiques du district Supérieur Nord	The Nipigon-Red Rock Board of Education The Lake Superior Board of Education/Le conseil scolaire du Lac Supérieur

52/97

**ONTARIO REGULATION 461/97**  
made under the  
**EDUCATION ACT**

Made: December 10, 1997  
Filed: December 11, 1997

**PUPIL REPRESENTATION ON BOARDS**

1. (1) Every board shall develop and implement a policy providing for the representation of the interests of pupils on the board.

(2) The policy shall be in accordance with this regulation and with any policies and guidelines issued by the Minister under paragraph 3.5 of subsection 8 (1) of the Act.

2. (1) Each board shall have one pupil representative or such greater number of pupil representatives as is specified in the policy.

**RÈGLEMENT DE L'ONTARIO 461/97**  
pris en application de la  
**LOI SUR L'ÉDUCATION**

pris le 10 décembre 1997  
déposé le 11 décembre 1997

**REPRÉSENTATION DES ÉLÈVES  
AU SEIN DES CONSEILS**

1. (1) Chaque conseil élabore et met en œuvre une politique prévoyant la représentation des intérêts des élèves en son sein.

(2) La politique est conforme au présent règlement et à toute politique établie et ligne directrice donnée par le ministre en vertu de la disposition 3.5 du paragraphe 8 (1) de la Loi.

2. (1) Chaque conseil compte un représentant des élèves ou le nombre plus élevé de représentants que précise la politique.



(2) A pupil representative must be in the last two years of the intermediate division or in the senior division at the time that he or she is elected or appointed.

3. (1) The policy shall specify whether the pupil representatives are to be chosen by peer election or by appointment and shall specify the procedures to be followed for the purpose.

(2) The procedures specified under subsection (1) shall ensure that the elections or appointments occur not later than June 30 in each school year, to take effect with respect to the following school year.

(3) The policy shall provide for,

- (a) the type and extent of participation by pupil representatives;
- (b) disqualification of pupil representatives;
- (c) the filling of vacancies;
- (d) the term of office of pupil representatives.

(4) With respect to the type and extent of participation by pupil representatives, the policy shall provide that, subject to subsections 55 (3) and (5) of the Act, pupil representatives have at least the same opportunity for participation at meetings of the board and at meetings of committees of the board as a board member has.

4. (1) The policy may provide for reimbursement of pupil representatives for all or part of their out-of-pocket expenses reasonably incurred in connection with carrying out the responsibilities of pupil representatives.

(2) Where reimbursement of expenses is provided for under subsection (1), it shall be according to the same policies as govern the reimbursement of board members for such expenses.

**5. This Regulation comes into force on the day section 30 of the *Education Quality Improvement Act, 1997* comes into force.**

52/97

**ONTARIO REGULATION 462/97**  
made under the  
**EDUCATION ACT**

Made: December 10, 1997  
Filed: December 11, 1997

**NATIVE REPRESENTATION ON BOARDS**

1. (1) Where a board has entered into one or more agreements under section 188 of the Act, the council of the band, or the councils of the bands, to which the Indian pupils who are, under the agreement or agreements, enrolled in the schools operated by the board or in the schools in which the board provides all the instruction, belong, may, subject to subsection (4), name one person to represent on the board the interests of the Indian pupils.

(2) Where a person is named under subsection (1), the board shall, subject to subsection (5), appoint the person a member of the board.

(3) The member appointed under subsection (2) shall be deemed to be an elected member of the board, except that,

- (a) where the agreement with the board under this section or, where there is more than one such agreement, all the agreements with

(2) Les représentants des élèves doivent être inscrits à l'une ou l'autre des deux dernières années du cycle intermédiaire ou au cycle supérieur au moment où ils sont élus ou nommés.

3. (1) La politique précise si les représentants des élèves doivent être choisis par voie d'élection par leurs pairs ou de nomination et en précise également les modalités.

(2) Les modalités précisées aux termes du paragraphe (1) font en sorte que les élections ou les nominations aient lieu au plus tard le 30 juin de l'année scolaire, de manière à prendre effet l'année scolaire suivante.

(3) La politique prévoit ce qui suit :

- a) la nature et l'étendue de la participation des représentants des élèves;
- b) l'inhabilité ou l'inéligibilité des représentants des élèves;
- c) la façon de combler les vacances;
- d) le mandat des représentants des élèves.

(4) En ce qui concerne la nature et l'étendue de leur participation, la politique prévoit que, sous réserve des paragraphes 55 (3) et (5) de la Loi, les représentants des élèves jouissent d'au moins les mêmes possibilités de participation aux réunions du conseil et de ses comités qu'un membre du conseil.

4. (1) La politique peut prévoir le remboursement de tout ou partie des frais raisonnables que les représentants des élèves engagent dans l'exercice de leurs fonctions de représentants des élèves.

(2) Le remboursement des frais qui est prévu au paragraphe (1) est subordonné aux mêmes politiques que celles qui régissent le remboursement des frais de ce genre qu'engagent les membres du conseil.

**5. Le présent règlement entre en vigueur le jour où l'article 30 de la Loi de 1997 sur l'amélioration de la qualité de l'éducation entre en vigueur.**

**RÈGLEMENT DE L'ONTARIO 462/97**  
pris en application de la  
**LOI SUR L'ÉDUCATION**

pris le 10 décembre 1997  
déposé le 11 décembre 1997

**REPRÉSENTATION DES ÉLÈVES INDIENS  
AU SEIN DES CONSEILS**

1. (1) Si le conseil a conclu une ou plusieurs ententes en vertu de l'article 188 de la Loi, le ou les conseils de la ou des bandes dont font partie les élèves indiens qui sont inscrits aux termes de celles-ci aux écoles qui relèvent du conseil ou aux écoles où le conseil dispense tout l'enseignement peuvent, sous réserve du paragraphe (4), désigner une personne pour représenter les intérêts des élèves indiens au sein du conseil.

(2) Si une personne est désignée aux termes du paragraphe (1), le conseil, sous réserve du paragraphe (5), la nomme membre du conseil.

(3) Le membre nommé aux termes du paragraphe (2) est réputé un membre élu du conseil. Toutefois :

- a) si l'entente ou toutes les ententes, s'il y en a plus d'une, qui sont conclues avec le conseil en vertu du présent article ne visent que



the board under this section are in respect of secondary school pupils only, the member so appointed is a member for secondary school purposes only and shall not vote on a motion or otherwise take part in any proceedings that affect elementary schools exclusively; and

- (b) where the agreement with the board under this section or, where there is more than one such agreement, all the agreements with the board under this section are in respect of elementary school pupils only, the member so appointed is a member for elementary school purposes only and shall not vote on a motion or otherwise take part in any proceedings that affect secondary schools exclusively.

(4) Where the number of Indian pupils enrolled in the schools under the jurisdiction of a board under one or more agreements made under this section exceeds 25 per cent of the average daily enrolment in the schools of the board, two persons may be named under subsection (1), and subsections (1) to (3) apply with necessary modifications in respect of the two persons.

(5) Where the number of Indian pupils enrolled in the schools under the jurisdiction of the board under one or more agreements made under this section is fewer than the lesser of 10 per cent of the average daily enrolment in the schools of the board and 100, the appointment under subsection (2) may be made at the discretion of the board.

(6) For the purpose of determining the number of Indian pupils enrolled in the schools under the jurisdiction of a board referred to in subsection (4) or (5), the number of Indian pupils in Indian schools in which the board provides all the instruction shall be included.

(7) Where the agreement is, or the agreements are, in respect of elementary school pupils only or secondary school pupils only, the enrolment referred to in subsections (4) and (5) shall be that of elementary school pupils only or secondary school pupils only, as the case may be.

(8) The term of office of a member appointed under this section terminates on the same date as the term of office of the elected members.

(9) Where a regulation made under clause 67 (2) (a) of the Act provides for the appointment of one or more members to represent on the board the interests of Indian pupils, this section does not apply.

(10) Where the office of a member of a board appointed under this section becomes vacant for any reason, it shall be filled in accordance with this section and the person so appointed shall hold office for the remainder of the term of his or her predecessor.

**2. This Regulation comes into force on the day section 95 of the Education Quality Improvement Act, 1997 comes into force.**

52/97

## ONTARIO REGULATION 463/97

made under the  
EDUCATION ACT

Made: December 10, 1997  
Filed: December 11, 1997

## ELECTRONIC MEETINGS

1. Subject to any conditions or limitations provided for under the Act or under this regulation, a member of a district school board who participates in a meeting through electronic means in accordance with this regulation shall be deemed to be present at the meeting for the purposes of every Act.

les élèves du niveau secondaire, le membre ainsi nommé n'est membre qu'aux fins des écoles secondaires et ne doit pas voter sur une motion qui concerne exclusivement les écoles élémentaires ni prendre part d'une autre façon aux délibérations qui se rapportent à celles-ci;

- (b) si l'entente ou toutes les ententes, s'il y en a plus d'une, qui sont conclues avec le conseil en vertu du présent article ne visent que les élèves du niveau élémentaire, le membre ainsi nommé n'est membre qu'aux fins des écoles élémentaires et ne doit pas voter sur une motion qui concerne exclusivement les écoles secondaires ni prendre part d'une autre façon aux délibérations qui se rapportent à celles-ci.

(4) Si le nombre d'élèves indiens inscrits aux écoles qui relèvent du conseil aux termes d'une ou de plusieurs ententes conclues en vertu du présent article est supérieur à 25 pour cent de l'effectif quotidien moyen des écoles du conseil, deux personnes peuvent être désignées en vertu du paragraphe (1). Les paragraphes (1) à (3) s'appliquent, avec les adaptations nécessaires, à l'égard de ces deux personnes.

(5) Si le nombre d'élèves indiens inscrits aux écoles qui relèvent du conseil aux termes d'une ou de plusieurs ententes conclues en vertu du présent article est inférieur au moindre de 10 pour cent de l'effectif quotidien moyen des écoles du conseil et de 100, le conseil peut procéder à la nomination prévue au paragraphe (2) à sa discrétion.

(6) Lorsqu'il s'agit de déterminer le nombre d'élèves indiens inscrits aux écoles qui relèvent du conseil visé au paragraphe (4) ou (5), il faut inclure le nombre d'élèves indiens qui fréquentent les écoles indiennes où le conseil dispense tout l'enseignement.

(7) Si l'entente ou les ententes ne visent que les élèves du niveau élémentaire ou les élèves du niveau secondaire, l'effectif mentionné aux paragraphes (4) et (5) correspond à celui des élèves du niveau élémentaire ou à celui des élèves du niveau secondaire, selon le cas.

(8) Le mandat des membres nommés en vertu du présent article expire à la même date que celui des membres élus.

(9) Si un règlement pris en application de l'alinéa 67 (2) a) de la Loi prévoit la nomination d'un ou de plusieurs membres pour représenter les intérêts des élèves indiens au sein du conseil, le présent article ne s'applique pas.

(10) Si le poste d'un membre du conseil nommé en vertu du présent article devient vacant pour une raison quelconque, il y est pourvu conformément au présent article. Le remplaçant demeure en fonction jusqu'à l'expiration du mandat de son prédécesseur.

**2. Le présent règlement entre en vigueur le jour où l'article 95 de la Loi de 1997 sur l'amélioration de la qualité de l'éducation entre en vigueur.**

## RÈGLEMENT DE L'ONTARIO 463/97

pris en application de la  
LOI SUR L'ÉDUCATION

pris le 10 décembre 1997  
déposé le 11 décembre 1997

## RÉUNIONS ÉLECTRONIQUES

1. Sous réserve des conditions ou restrictions que prévoit la Loi ou le présent règlement, le membre d'un conseil scolaire de district qui participe à une réunion par des moyens électroniques conformément au présent règlement est réputé présent à la réunion pour l'application de toute loi.

2. (1) Every district school board shall develop and implement a policy providing for the use of electronic means for the holding of meetings of a district school board and meetings of a committee of a district school board, including a committee of the whole board.

(2) The policy shall be in accordance with this regulation and with any policies established and guidelines issued by the Minister under paragraph 3.6 of subsection 8 (1) of the Act.

3. (1) The policy shall provide for the following:

1. At the request of any board member or pupil representative, the board shall provide the member or representative with electronic means for participating in one or more meetings of the board or of a committee of the board, including a committee of the whole board.
2. The electronic means required by paragraph 1 shall permit the member or representative to hear and be heard by all other participants in the meeting.
3. The electronic means shall be provided in such a way that the rules governing conflict of interest of members are complied with.

(2) The policy shall ensure that pupil representatives who are participating through electronic means do not participate in any proceedings that are closed to the public in accordance with the Act.

4. (1) Subsection (2) applies in respect of meetings of the board or of a committee of the board, including a committee of the whole board, that are open to the public.

(2) Every board shall determine, in accordance with any policies established and guidelines issued under paragraph 3.6 of subsection 8 (1) of the Act, whether electronic means should be provided at one or more locations within the area of jurisdiction of the board, to permit participation by members of the public in meetings or classes of meetings.

(3) Where the board determines that electronic means should be provided under this section, the board's policy shall,

- (a) provide for the extent and manner of participation by members of the public through electronic means; and
- (b) ensure that members of the public who are participating through electronic means do not participate in any proceedings that are closed to the public in accordance with the Act.

5. (1) The policy shall require that, at every meeting of the board or of a committee of the whole board, the following persons be physically present in the meeting room of the board:

1. The chair of the board or his or her designate.
2. At least one additional member of the board.
3. The director of education of the board or his or her designate.

(2) The policy shall require that, at every meeting of a committee of the board, except a committee of the whole board, the following persons be physically present in the meeting room of the committee:

1. The chair of the committee or his or her designate.
2. The director of education of the board or his or her designate.

(3) Despite paragraph 1 of subsection 3 (1), the policy shall include provisions permitting the board to refuse to provide a member with electronic means of participation in a meeting of the board, a meeting of a committee of the whole board or a meeting of any other committee of the board, where to do so is necessary to ensure compliance with this section.

2. (1) Chaque conseil scolaire de district élabore et met en œuvre une politique prévoyant l'emploi de moyens électroniques pour la tenue de ses réunions et de celles de ses comités, y compris un comité plénier.

(2) La politique est conforme au présent règlement et à toute politique établie et ligne directrice donnée par le ministre en vertu de la disposition 3.6 du paragraphe 8 (1) de la Loi.

3. (1) La politique prévoit ce qui suit :

1. Le conseil fournit au membre ou au représentant des élèves qui le lui demande les moyens électroniques nécessaires pour participer à une ou plusieurs de ses réunions ou de celles de ses comités, y compris un comité plénier.
2. Les moyens électroniques qu'exige la disposition 1 permettent au membre ou au représentant d'entendre tous les autres participants à la réunion et de se faire entendre par eux.
3. Les moyens électroniques sont fournis de façon que les règles régissant les conflits d'intérêts des membres soient observées.

(2) La politique fait en sorte que les représentants des élèves qui participent à une réunion par des moyens électroniques ne participent à aucune instance qui se tient à huis clos conformément à la Loi.

4. (1) Le paragraphe (2) s'applique à l'égard des réunions du conseil ou de celles de ses comités, y compris un comité plénier, qui sont publiques.

(2) Chaque conseil détermine, conformément à toute politique établie et ligne directrice donnée en vertu de la disposition 3.6 du paragraphe 8 (1) de la Loi, si des moyens électroniques devraient être fournis à un ou plusieurs endroits dans son territoire de compétence pour permettre aux membres du public de participer aux réunions ou à des catégories de réunions.

(3) Si le conseil détermine que des moyens électroniques devraient être fournis aux termes du présent article, sa politique :

- a) prévoit le mode de participation des membres du public par des moyens électroniques, ainsi que l'étendue de leur participation;
- b) fait en sorte que les membres du public qui participent à une réunion par des moyens électroniques ne participent à aucune instance qui se tient à huis clos conformément à la Loi.

5. (1) La politique exige que les personnes suivantes soient physiquement présentes dans la salle de réunion du conseil à chaque réunion du conseil ou d'un comité plénier :

1. Le président du conseil ou la personne qu'il désigne.
2. Au moins un autre membre du conseil.
3. Le directeur de l'éducation du conseil ou la personne qu'il désigne.

(2) La politique exige que les personnes suivantes soient physiquement présentes dans la salle de réunion du comité à chaque réunion d'un comité du conseil, à l'exception d'un comité plénier :

1. Le président du comité ou la personne qu'il désigne.
2. Le directeur de l'éducation du conseil ou la personne qu'il désigne.

(3) Malgré la disposition 1 du paragraphe 3 (1), la politique comprend des dispositions qui permettent au conseil de refuser de fournir à un membre les moyens électroniques nécessaires pour participer à une de ses réunions ou à une réunion d'un comité plénier ou d'un autre comité du conseil si cela est nécessaire pour assurer le respect du présent article.



6. (1) The meeting room of the board or of a committee of the board, as the case may be, shall be open to permit physical attendance by members of the public at every meeting of the board or of the committee of the board.

(2) For the purposes of subsection (1), the meeting room of a committee of the whole board is the meeting room of the board.

(3) Subsection (1) does not apply where a meeting is closed to the public in accordance with the Act.

7. This Regulation comes into force on the day section 107 of the *Education Quality Improvement Act, 1997* comes into force.

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6. (1) La salle de réunion du conseil ou d'un de ses comités, selon le cas, est ouverte de façon à permettre aux membres du public d'assister en personne à chaque réunion du conseil ou du comité en question.

(2) Pour l'application du paragraphe (1), la salle de réunion d'un comité plénier du conseil est la salle de réunion du conseil.

(3) Le paragraphe (1) ne s'applique pas si la réunion se tient à huis clos conformément à la Loi.

7. Le présent règlement entre en vigueur le jour où l'article 107 de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation* entre en vigueur.

## ONTARIO REGULATION 464/97

### made under the EDUCATION ACT

Made: December 10, 1997

Filed: December 11, 1997

## SPECIAL EDUCATION ADVISORY COMMITTEES

1. In this Regulation,

"local association" means an association or organization of parents that operates locally within the area of jurisdiction of a board and that is affiliated with an association or organization that is not an association or organization of professional educators but that is incorporated and operates throughout Ontario to further the interests and well-being of one or more groups of exceptional children or adults.

2. (1) Every district school board shall establish a special education advisory committee that shall consist of,

- (a) subject to subsections (2) and (3), one representative from each of the local associations that operates locally within the area of jurisdiction of the board, as nominated by the local association and appointed by the board;
- (b) one alternate for each representative appointed under clause (a), as nominated by the local association and appointed by the board;
- (c) such number of members from among the board's own members as is determined under subsection (4), as appointed by the board;
- (d) where the number of members appointed under clause (c) is less than three, one alternate, as appointed by the board from among its own members, for each member appointed under clause (c);
- (e) one or two persons to represent the interests of Indian pupils, as provided by section 4; and
- (f) one or more additional members appointed under subsection (5).

(2) The board shall not appoint more than 12 representatives under clause (1) (a).

(3) Where there are more than 12 local associations within the area of jurisdiction of the board, the board shall select the 12 local associations that shall be represented.

## RÈGLEMENT DE L'ONTARIO 464/97

### pris en application de la LOI SUR L'ÉDUCATION

pris le 10 décembre 1997

déposé le 11 décembre 1997

## COMITÉS CONSULTATIFS POUR L'ENFANCE EN DIFFICULTÉ

1. La définition qui suit s'applique au présent règlement.

«association locale» Association ou groupe de parents qui exerce ses activités sur le plan local dans le territoire de compétence d'un conseil et qui est affilié à une association ou à un groupe qui n'est pas une association ou un groupe d'éducateurs professionnels mais qui est constitué en personne morale et exerce ses activités dans tout l'Ontario pour favoriser les intérêts et le bien-être d'un ou de plusieurs groupes d'enfants ou d'adultes en difficulté.

2. (1) Chaque conseil scolaire de district crée un comité consultatif pour l'enfance en difficulté qui comprend les personnes suivantes :

- a) sous réserve des paragraphes (2) et (3), un représentant de chacune des associations locales qui exerce ses activités sur le plan local dans le territoire de compétence du conseil, qui est mis en candidature par l'association locale et nommé par le conseil;
- b) un membre suppléant pour chaque représentant nommé aux termes de l'alinéa a), qui est mis en candidature par l'association locale et nommé par le conseil;
- c) les membres dont le nombre est déterminé aux termes du paragraphe (4) et qui sont nommés par le conseil parmi ses membres;
- d) si le nombre de membres nommés aux termes de l'alinéa c) est inférieur à trois, un membre suppléant pour chacun de ces membres ainsi nommés, qui est nommé par le conseil parmi ses membres;
- e) une ou deux personnes pour représenter les intérêts des élèves indiens, conformément à l'article 4;
- f) un ou plusieurs autres membres nommés en vertu du paragraphe (5).

(2) Le conseil ne doit pas nommer plus de 12 représentants aux termes de l'alinéa (1) a).

(3) S'il existe plus de 12 associations locales dans le territoire de compétence du conseil, celui-ci choisit les 12 associations locales qui sont représentées.



(4) The number to be appointed by the board under clause (1) (c) shall be the lesser of,

(a) three; and

(b) 25 per cent of the total number of members of the board, rounded down to the nearest whole number.

(5) For the purposes of clause (1) (f), the board may appoint one or more additional members who are neither representatives of a local association nor members of the board or another committee of the board.

3. (1) Every school authority, other than a board established under section 68 of the Act, shall establish a special education advisory committee that shall consist of,

(a) two representatives from the local associations that operate locally within the area of jurisdiction of the board, as nominated by the local associations and appointed by the board;

(b) one alternate for each representative appointed under clause (a), as nominated by the local associations and appointed by the board;

(c) one member from among the board's own members, as appointed by the board;

(d) one alternate, as appointed by the board from among its own members, for the member appointed under clause (c); and

(e) one or two persons to represent the interests of Indian pupils, as provided by section 4.

(2) Where no local association or associations have been established, instead of the members and alternates required by clauses (1) (a) and (b), the board shall appoint two members and two alternates who are not members of the board.

4. (1) Where a board has one member appointed in accordance with a regulation made under section 188 of the Act, the special education advisory committee shall include one person appointed to represent the interests of Indian pupils.

(2) Where a board has more than one member appointed in accordance with a regulation made under section 188 of the Act, the special education advisory committee shall include two persons appointed to represent the interests of Indian pupils.

(3) One alternate shall be appointed for each person appointed in accordance with subsection (1) or (2).

(4) The representatives and alternates shall be nominated by the councils of the bands with which the board has entered into agreements under section 188 of the Act.

(5) The board shall appoint the persons nominated under subsection (4).

5. (1) A person is not qualified to be nominated or appointed under section 2 or 3 to a special education advisory committee of a board unless the person is qualified to vote for members of that board and is resident in its area of jurisdiction.

(2) Subsection (1) does not apply in respect of persons appointed under section 4.

(3) A person is not qualified to be nominated or appointed under section 2, 3 or 4 if the person is employed by the board.

(4) Le nombre de membres que le conseil doit nommer aux termes de l'alinéa (1) c) correspond au moins élevé des nombres suivants :

a) trois;

b) 25 pour cent du nombre total de membres du conseil, arrondi à la baisse au chiffre entier le plus proche.

(5) Pour l'application de l'alinéa (1) f), le conseil peut nommer un ou plusieurs autres membres qui ne représentent pas une association locale, ni ne sont membres du conseil ou d'un autre de ses comités.

3. (1) Chaque administration scolaire, à l'exception d'un conseil créé aux termes de l'article 68 de la Loi, crée un comité consultatif pour l'enfance en difficulté qui comprend les personnes suivantes :

a) deux représentants des associations locales qui exercent leurs activités sur le plan local dans le territoire de compétence du conseil, qui sont mis en candidature par les associations locales et nommés par le conseil;

b) un membre suppléant pour chaque représentant nommé aux termes de l'alinéa a), qui est mis en candidature par les associations locales et nommé par le conseil;

c) un membre nommé par le conseil parmi ses membres;

d) un membre suppléant, qui est nommé par le conseil parmi ses membres, pour le membre nommé aux termes de l'alinéa c);

e) une ou deux personnes pour représenter les intérêts des élèves indiens, conformément à l'article 4.

(2) En l'absence d'association locale, le conseil, au lieu de nommer les membres et les membres suppléants qu'exigent les alinéas (1) a) et b), nomme deux membres et deux membres suppléants qui ne sont pas membres du conseil.

4. (1) Si un conseil inclut un membre nommé conformément à un règlement pris en application de l'article 188 de la Loi, le comité consultatif pour l'enfance en difficulté comprend une personne nommée pour représenter les intérêts des élèves indiens.

(2) Si un conseil inclut plus d'un membre nommé conformément à un règlement pris en application de l'article 188 de la Loi, le comité consultatif pour l'enfance en difficulté comprend deux personnes nommées pour représenter les intérêts des élèves indiens.

(3) Un membre suppléant est nommé pour chaque personne nommée conformément au paragraphe (1) ou (2).

(4) Les représentants et les membres suppléants sont mis en candidature par les conseils de bandes avec lesquels le conseil a conclu des ententes en vertu de l'article 188 de la Loi.

(5) Le conseil nomme les personnes mises en candidature aux termes du paragraphe (4).

5. (1) Une personne ne satisfait pas aux conditions requises pour être mise en candidature ou nommée pour être membre d'un comité consultatif pour l'enfance en difficulté d'un conseil aux termes de l'article 2 ou 3, à moins qu'elle ne soit habilitée à voter lors de l'élection des membres de ce conseil et ne réside dans le territoire de compétence de celui-ci.

(2) Le paragraphe (1) ne s'applique pas aux personnes nommées aux termes de l'article 4.

(3) Une personne ne satisfait pas aux conditions requises pour être mise en candidature ou nommée aux termes de l'article 2, 3 ou 4 si elle est employée par le conseil.

6. Subject to section 7, each of the persons appointed to a special education advisory committee of a board shall hold office during the term of office of the members of the board and until a new board is organized.

7. (1) A member of a special education advisory committee vacates his or her seat if he or she,

- (a) is convicted of an indictable offence;
- (b) absents himself or herself without being authorized by resolution entered in the minutes from three consecutive regular meetings of the committee; or
- (c) ceases to hold the qualifications to be appointed to the committee.

(2) An alternate for a member of a special education advisory committee vacates his or her position if he or she,

- (a) is convicted of an indictable offence;
- (b) absents himself or herself without being authorized by resolution entered in the minutes from three consecutive regular meetings of the committee in respect of which the alternate received a notice under subsection 9 (9); or
- (c) ceases to hold the qualifications to be appointed as an alternate.

(3) Where a seat or position becomes vacant under this section, section 8 applies with respect to filling the vacancy.

(4) Despite subsection (3), where a member of the committee or an alternate for a member of a committee is convicted of an indictable offence, the vacancy or position shall not be filled until the time for taking any appeal that may be taken from the conviction has elapsed, or until the final determination of any appeal so taken, and in the event of the quashing of the conviction the seat or position shall be deemed not to have been vacated.

8. (1) If a seat or position on a special education advisory committee becomes vacant, the board that appointed the person whose seat or position has become vacant shall appoint a qualified person to fill the vacancy for the remainder of the term of the person whose seat or position has become vacant.

(2) The nomination requirements of sections 2, 3 and 4 apply with respect to appointments under this section.

(3) Where a seat of a member of the committee is vacant and has not yet been filled, the alternate for the member, if there is an alternate, shall act in the member's place for all purposes of this Regulation.

9. (1) A majority of the members of a special education advisory committee is a quorum, and a vote of a majority of the members present at a meeting is necessary to bind the committee.

(2) Every member present at a meeting, or his or her alternate when attending the meeting in his or her place, is entitled to one vote.

(3) The members of the committee shall, at their first meeting, elect one of their members as chair and one of their members as vice-chair.

(4) The vice-chair shall assist the chair and shall act for the chair at meetings in his or her absence.

(5) The chair or, in the absence of the chair, the vice-chair, shall preside at meetings.

6. Sous réserve de l'article 7, chacune des personnes nommées au comité consultatif pour l'enfance en difficulté d'un conseil demeure en fonction pendant la durée du mandat des membres du conseil et jusqu'à ce qu'un nouveau conseil soit constitué.

7. (1) Le membre d'un comité consultatif pour l'enfance en difficulté abandonne son poste si, selon le cas :

- a) il est déclaré coupable d'un acte criminel;
- b) il n'assiste pas, sans y avoir été autorisé par une résolution inscrite au procès-verbal, à trois réunions ordinaires consécutives du comité;
- c) il cesse de posséder les qualités requises pour être nommé au comité.

(2) Le suppléant d'un membre d'un comité consultatif pour l'enfance en difficulté abandonne son poste si, selon le cas :

- a) il est déclaré coupable d'un acte criminel;
- b) il n'assiste pas, sans y avoir été autorisé par une résolution inscrite au procès-verbal, à trois réunions ordinaires consécutives du comité à l'égard desquelles il a reçu un avis aux termes du paragraphe 9 (9);
- c) il cesse de posséder les qualités requises pour être nommé membre suppléant.

(3) Si un siège ou un poste devient vacant aux termes du présent article, l'article 8 s'applique en ce qui concerne la façon de combler la vacance.

(4) Malgré le paragraphe (3), si un membre ou un membre suppléant d'un comité est déclaré coupable d'un acte criminel, la vacance ne doit pas être comblée ou le poste pourvu tant que le délai accordé pour interjeter appel ne s'est pas écoulé ou qu'il ne soit statué définitivement sur l'appel. Si la déclaration de culpabilité est annulée, le siège ou le poste est réputé n'avoir jamais été vacant.

8. (1) En cas de vacance d'un siège ou d'un poste au sein d'un comité consultatif pour l'enfance en difficulté, le conseil qui a nommé la personne dont le siège ou le poste est devenu vacant en nomme une autre qui satisfait aux conditions requises pour occuper le siège ou poste vacant jusqu'à l'expiration du mandat de la personne dont le siège ou le poste est devenu vacant.

(2) Les exigences des articles 2, 3 et 4 en matière de mise en candidature s'appliquent aux nominations faites aux termes du présent article.

(3) Si le siège d'un membre du comité est vacant et que cette vacance n'a toujours pas été comblée, le membre suppléant, s'il y en a un, remplace le membre pour l'application du présent règlement.

9. (1) La majorité des membres d'un comité consultatif pour l'enfance en difficulté constitue le quorum. Le vote de la majorité des membres présents à une réunion est nécessaire pour engager le comité.

(2) Chaque membre présent à une réunion, ou son suppléant lorsqu'il assiste à la réunion à sa place, a droit à une voix.

(3) Lors de leur première réunion, les membres du comité élisent parmi eux un président et un vice-président.

(4) Le vice-président seconde le président et, en son absence, le remplace aux réunions.

(5) Le président ou, en son absence, le vice-président, dirige les réunions.



(6) If at any meeting the chair and vice-chair are not present, the members present may elect a chair for that meeting.

(7) The chair may vote with the other members of the committee and any motion on which there is an equality of votes is lost.

(8) The committee shall meet at least 10 times in each school year.

(9) Where a member for whom an alternate has been appointed cannot attend a meeting of the committee, the member shall so notify the alternate.

(10) Where an alternate receives a notice under subsection (9), he or she shall attend the meeting and act at the meeting in the member's place.

**10.** (1) The board shall make available to its special education advisory committee the personnel and facilities that the board considers necessary for the proper functioning of the committee, including the personnel and facilities that the board considers necessary to permit the use of electronic means for the holding of meetings of the committee in accordance with the regulations made under section 208.1 of the Act.

(2) Within a reasonable time after a special education advisory committee is appointed, the board shall provide the members of the committee and their alternates with information and orientation respecting,

- (a) the role of the committee and of the board in relation to special education; and
- (b) Ministry and board policies relating to special education.

**11.** (1) A special education advisory committee of a board may make recommendations to the board in respect of any matter affecting the establishment, development and delivery of special education programs and services for exceptional pupils of the board.

(2) Before making a decision on a recommendation of the committee, the board shall provide an opportunity for the committee to be heard before the board and before any other committee of the board to which the recommendation is referred.

**12.** (1) The board shall ensure that its special education advisory committee is provided with the opportunity to participate in the board's annual review, under Regulation 306 of the Revised Regulations of Ontario, 1990, of its special education plan.

(2) The board shall ensure that its special education advisory committee is provided with the opportunity to participate in the board's annual budget process under section 231 of the Act, as that process relates to special education.

(3) The board shall ensure that its special education advisory committee is provided with the opportunity to review the financial statements of the board, prepared under section 252 of the Act, as those statements relate to special education.

**13.** This Regulation comes into force on the day section 31 of the *Education Quality Improvement Act, 1997* comes into force.

(6) En cas d'absence du président et du vice-président à une réunion, les membres présents peuvent élire un président de séance pour cette réunion.

(7) Le président peut voter avec les autres membres du comité. En cas de partage des voix, la motion est rejetée.

(8) Le comité se réunit au moins 10 fois pendant l'année scolaire.

(9) Le membre pour lequel un suppléant a été nommé et qui ne peut assister à une réunion du comité en avise le suppléant.

(10) Le suppléant qui reçoit un avis aux termes du paragraphe (9) assiste à la réunion et y remplace le membre.

**10.** (1) Le conseil met à la disposition de son comité consultatif pour l'enfance en difficulté le personnel et les installations qu'il juge nécessaires au bon fonctionnement du comité, y compris le personnel et les installations qu'il juge nécessaires pour permettre l'emploi de moyens électroniques pour la tenue des réunions du comité conformément aux règlements pris en application de l'article 208.1 de la Loi.

(2) Le conseil donne aux membres d'un comité consultatif pour l'enfance en difficulté et à leurs suppléants, dans un délai raisonnable après la constitution du comité, des renseignements et l'orientation adoptée à l'égard de ce qui suit :

- a) les rôles respectifs du comité et du conseil en ce qui concerne l'enfance en difficulté;
- b) les politiques du ministère et du conseil en ce qui concerne l'enfance en difficulté.

**11.** (1) Le comité consultatif pour l'enfance en difficulté d'un conseil peut lui faire des recommandations sur toutes questions qui touchent la création, l'élaboration et la prestation de programmes d'enseignement et de services à l'enfance en difficulté à l'intention des élèves en difficulté du conseil.

(2) Avant de rendre une décision sur une recommandation du comité, le conseil donne au comité la possibilité d'être entendu par le conseil et par tout autre comité du conseil auquel la recommandation est soumise.

**12.** (1) Le conseil veille à ce que son comité consultatif pour l'enfance en difficulté ait la possibilité de participer à l'examen de son plan pour l'enfance en difficulté qu'il effectue chaque année aux termes du Règlement 306 des Règlements refondus de l'Ontario de 1990.

(2) Le conseil veille à ce que son comité consultatif pour l'enfance en difficulté ait la possibilité de participer à son processus budgétaire annuel aux termes de l'article 231 de la Loi, dans la mesure où ce processus a trait à l'enfance en difficulté.

(3) Le conseil veille à ce que son comité consultatif pour l'enfance en difficulté ait la possibilité d'examiner les états financiers qu'il a préparés aux termes de l'article 252 de la Loi, dans la mesure où ils ont trait à l'enfance en difficulté.

**13.** Le présent règlement entre en vigueur le jour où l'article 31 de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation* entre en vigueur.



## ONTARIO REGULATION 465/97

made under the  
EDUCATION ACT

Made: December 10, 1997

Filed: December 11, 1997

**REGULATION UNDER SECTION 46.1 OF THE ACT  
(PRESCRIBED MUNICIPALITIES,  
DEFENCE PROPERTY)**

1. The municipalities named in Column 1 are prescribed for the purposes of subsection 46.1 (2) of the *Education Act*.

2. The lands and premises with the assessment roll numbers set out in Column 2 are prescribed for the purposes of the definition of "defence property" in subsection 46.1 (1) of the Act.

COLUMN 1	COLUMN 2
Town of Petawawa	47 79 078 015 44100 47 79 079 010 08400
City of Kingston	10 11 090 090 27100 10 11 090 090 27200 10 11 090 090 27300 10 11 090 090 27500
City of Quinte West	12 04 211 085 75100 12 04 211 085 75200
City of Gloucester	06 06 000 030 00121
City of Ottawa	06 14 010 402 59605
Township of Essa	43 21 010 012 00100
Township of Adjala-Tosorontio	43 01 020 007 20402
City of North Bay	48 44 050 076 50000
City of Toronto	19 08 031 580 00151

3. This Regulation comes into force on the day section 22 of the *Education Quality Improvement Act, 1997* comes into force.

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## ONTARIO REGULATION 466/97

made under the  
EDUCATION ACT

Made: December 10, 1997

Filed: December 11, 1997

**BORROWING FOR PERMANENT  
IMPROVEMENTS:  
ISSUANCE OF DEBENTURES**

1. A board that, under subsection 247 (1) or (2) of the Act, borrows money or incurs a debt for permanent improvements or issues debentures for the money borrowed or the debt incurred shall do so only in accordance with this Regulation.

2. (1) A board may pass a money by-law for the issuing of debentures.

(2) Subsections 140 (1) and (2) of the *Municipal Act* apply to the money by-law.

3. (1) A board may by by-law authorize,

## RÈGLEMENT DE L'ONTARIO 466/97

pris en application de la  
LOI SUR L'ÉDUCATION

pris le 10 décembre 1997

déposé le 11 décembre 1997

**EMPRUNTS AUX FINS  
D'AMÉLIORATIONS PERMANENTES :  
ÉMISSION DE DÉBENTURES**

1. Le conseil qui, en vertu du paragraphe 247 (1) ou (2) de la Loi, contracte des emprunts ou des dettes pour couvrir le coût d'améliorations permanentes ou émet des débentures à l'égard de ces emprunts ou dettes ne le fait que conformément au présent règlement.

2. (1) Un conseil peut adopter un règlement administratif de finance autorisant l'émission de débentures.

(2) Les paragraphes 140 (1) et (2) de la *Loi sur les municipalités* s'appliquent au règlement administratif de finance.

3. (1) Un conseil peut, par règlement administratif, autoriser ce qui suit :

- (a) the borrowing of money by the issuance of instalment debentures that comply with subsection (2); and
- (b) the issuance of debentures to refund at maturity outstanding debentures of the board in accordance with subsection (3).

(2) The last instalment of an instalment debenture shall mature no earlier than five years after the date upon which the debenture was issued and the debenture shall specify the sum of principal payable under the debenture in the final year that the board shall raise by issuing refunding debentures under clause (1) (b).

(3) A refunding debenture mentioned in clause (1) (b) shall be payable within the maximum period of years that the board authorized by by-law for the repayment of the debt for which it issued debentures, commencing on the date it issued the original debentures.

(4) A by-law passed under subsection (1) shall provide that the sums of principal and interest payable on the debentures issued under the by-law shall be provided for in accordance with subsections 247 (5) and (6) of the Act.

4. (1) Subject to subsections (2) to (7), the following provisions of the *Municipal Act* apply to money by-laws passed and debentures issued under this Regulation:

1. Subsections 140 (5) to (10), (12), (13) and (15) to (18).
2. Subsections 141 (1), (2), (3), (5) to (8), (10) and (11).
3. Sections 142 and 143.
4. Subsections 144 (1), (2.1), (2.2) and (3) to (9).
5. Subsections 145 (1) and (3).
6. Subsection 150 (1).
7. Sections 151 and 152.
8. Sections 169, 170, 171, 172, 174 and 175.
9. Subsection 176 (2).
10. Section 177.
11. Sections 179, 180, 181.1 and 182.
12. Subsections 185 (1) and (2).
13. Sections 186 and 188.

(2) In the provisions mentioned in subsection (1),

- (a) references to a council, corporation, municipality, municipal corporation or council of a city shall be deemed to be references to the board that issued the debentures; and
- (b) references to the treasurer of a municipality shall be deemed to be references to the treasurer of the board that issued the debentures.

(3) In subsection 141 (5) of the *Municipal Act*, the reference to a retirement fund referred to in clause 141 (4) (b) of that Act shall be deemed to be a reference to the retirement fund mentioned in clause 5 (1) (b) of this Regulation.

(4) In subsection 144 (3) of the *Municipal Act*, the reference to clause 144 (2) (b) of that Act shall be deemed to be a reference to clause 6 (1) (b) of this Regulation.

- a) l'emprunt de sommes d'argent par l'émission de débentures remboursables par versements qui soient conformes au paragraphe (2);
- b) l'émission de débentures pour rembourser, à leur échéance, les débentures en circulation du conseil conformément au paragraphe (3).

(2) Le dernier versement de débentures remboursables par versements vient à échéance au plus tôt cinq ans après leur date d'émission. La somme que le conseil doit recueillir par l'émission de débentures de remboursement en vertu de l'alinéa (1) b) pour payer le capital des débentures remboursables par versements la dernière année est indiquée sur les débentures de remboursement.

(3) Les débentures de remboursement visées à l'alinéa (1) b) sont remboursables dans le nombre maximal d'années que le conseil a autorisé par règlement administratif pour rembourser la dette à l'égard de laquelle il a émis des débentures, à compter de la date d'émission des débentures initiales.

(4) Les règlements administratifs adoptés en vertu du paragraphe (1) prévoient l'affectation, conformément aux paragraphes 247 (5) et (6) de la Loi, des sommes nécessaires pour payer le capital et les intérêts exigibles sur les débentures aux termes de ces règlements.

4. (1) Sous réserve des paragraphes (2) à (7), les dispositions suivantes de la *Loi sur les municipalités* s'appliquent aux règlements administratifs de finance adoptés et aux débentures émises en vertu du présent règlement :

1. Les paragraphes 140 (5) à (10), (12), (13) et (15) à (18).
2. Les paragraphes 141 (1), (2), (3), (5) à (8), (10) et (11).
3. Les articles 142 et 143.
4. Les paragraphes 144 (1), (2.1), (2.2) et (3) à (9).
5. Les paragraphes 145 (1) et (3).
6. Le paragraphe 150 (1).
7. Les articles 151 et 152.
8. Les articles 169, 170, 171, 172, 174 et 175.
9. Le paragraphe 176 (2).
10. L'article 177.
11. Les articles 179, 180, 181.1 et 182.
12. Les paragraphes 185 (1) et (2).
13. Les articles 186 et 188.

(2) Dans les dispositions visées au paragraphe (1) :

- a) les mentions d'un conseil, d'une municipalité ou du conseil d'une cité sont réputées des mentions du conseil scolaire qui a émis les débentures;
- b) les mentions du trésorier d'une municipalité sont réputées des mentions du trésorier du conseil scolaire qui a émis les débentures.

(3) Au paragraphe 141 (5) de la *Loi sur les municipalités*, la mention du fonds de remboursement visé à l'alinéa 141 (4) b) de cette loi est réputée une mention du fonds de remboursement visé à l'alinéa 5 (1) b) du présent règlement.

(4) Au paragraphe 144 (3) de la *Loi sur les municipalités*, le renvoi à l'alinéa 144 (2) b) de cette loi est réputé un renvoi à l'alinéa 6 (1) b) du présent règlement.

(5) In subsection 144 (5) of the *Municipal Act*, the reference to section 167 of that Act shall be deemed to be a reference to section 241 of the *Education Act*.

(6) In subsections 144 (7) and (8) of the *Municipal Act*, references to the 31st day of December shall be deemed to be references to August 31.

(7) In subsection 176 (2) of the *Municipal Act*, the reference to subsection 176 (1) of that Act shall be deemed to be a reference to section 10 of this Regulation.

(8) In section 177 of the *Municipal Act*, the reference to levying the amount required to be raised for a sinking fund shall be deemed to be a reference to setting aside the amount required to be set aside for a sinking fund.

5. (1) A by-law passed with respect to extendible or retractable term debentures shall provide for the setting aside in each year of the currency of the debentures of,

- (a) an amount sufficient to pay the interest payable on the debentures in that year; and
- (b) a specified amount to form a retirement fund.

(2) The specified amount for the retirement fund shall be equal to or greater than the amount that would have been required to have been set aside and paid in each year in respect of the principal amount of the debentures if,

- (a) the principal had been payable in equal annual instalments; and
- (b) the board had issued the debentures for the maximum period that it authorized by by-law for the repayment of the debt for which it issued the debentures, commencing on the date of the debentures.

(3) A by-law mentioned in subsection (1) shall provide that the amounts payable under that subsection shall be set aside and paid in accordance with subsections 247 (5) and (6) of the Act.

6. (1) A money by-law for the issuing of sinking fund debentures shall provide for the setting aside in each year of the currency of the debentures of,

- (a) an amount sufficient to pay the interest payable on the debentures in that year; and
- (b) a specified amount for the sinking fund that, with interest at a rate not to exceed 8 per cent per annum compounded yearly, will be sufficient to pay the principal of the debentures at maturity.

(2) A by-law mentioned in subsection (1) shall provide that the amounts payable under that subsection shall be set aside and paid in accordance with subsections 247 (5) and (6) of the Act.

(3) The principal and interest payable under refinancing debentures issued under subsection 144 (2.1) of the *Municipal Act* shall be raised in accordance with subsections (1) and (2) of this section.

7. (1) A money by-law for the issuing of term debentures shall provide for,

- (a) the setting aside, in each year of the currency of the debentures, of an amount sufficient to pay the interest payable on the debentures; and

(5) Au paragraphe 144 (5) de la *Loi sur les municipalités*, le renvoi à l'article 167 de cette loi est réputé un renvoi à l'article 241 de la *Loi sur l'éducation*.

(6) Aux paragraphes 144 (7) et (8) de la *Loi sur les municipalités*, les mentions du 31 décembre sont réputées des mentions du 31 août.

(7) Au paragraphe 176 (2) de la *Loi sur les municipalités*, le renvoi au paragraphe 176 (1) de cette loi est réputé un renvoi à l'article 10 du présent règlement.

(8) À l'article 177 de la *Loi sur les municipalités*, la mention de l'imposition du montant devant être recueilli aux fins du fonds d'amortissement est réputée une mention de l'affectation de la somme à affecter au fonds d'amortissement.

5. (1) Les règlements administratifs adoptés à l'égard de débetures à échéance reportable ou de débetures encaissables par anticipation prévoient en l'affectation des sommes suivantes chaque année de la durée des débetures :

- a) une somme suffisante pour payer les intérêts exigibles sur les débetures dans l'année;
- b) une somme précisée pour constituer un fonds de remboursement.

(2) La somme précisée pour constituer le fonds de remboursement est égale ou supérieure à la somme qu'il aurait fallu affecter et verser chaque année à l'égard du capital des débetures si :

- a) d'une part, le capital avait été payable en versements annuels égaux;
- b) d'autre part, le conseil avait émis les débetures pour le nombre maximal d'années qu'il a autorisé par règlement administratif pour rembourser la dette à l'égard de laquelle il les a émises, à compter de la date que portent les débetures.

(3) Les règlements administratifs visés au paragraphe (1) prévoient que les sommes payables aux termes de ce paragraphe sont affectées et versées conformément aux paragraphes 247 (5) et (6) de la Loi.

6. (1) Les règlements administratifs de finance autorisant l'émission de débetures à fonds d'amortissement prévoient l'affectation des sommes suivantes chaque année de la durée des débetures :

- a) une somme suffisante pour payer les intérêts exigibles sur les débetures dans l'année;
- b) une somme précisée pour le fonds d'amortissement qui, majorée des intérêts calculés à un taux annuel maximal de 8 pour cent composé annuellement, est suffisante pour rembourser le capital des débetures à leur échéance.

(2) Les règlements administratifs visés au paragraphe (1) prévoient que les sommes payables aux termes de ce paragraphe sont affectées et versées conformément aux paragraphes 247 (5) et (6) de la Loi.

(3) La somme nécessaire pour payer le capital et les intérêts exigibles sur les débetures de remboursement émises aux termes du paragraphe 144 (2.1) de la *Loi sur les municipalités* est recueillie conformément aux paragraphes (1) et (2) du présent article.

7. (1) Les règlements administratifs de finance autorisant l'émission de débetures à terme prévoient ce qui suit :

- a) l'affectation, chaque année de la durée des débetures, d'une somme suffisante pour payer les intérêts exigibles sur celles-ci;



- (b) the setting aside, in each year of the currency of the debentures in which no other debentures issued under the same by-law become due and payable, of a specified amount to form a retirement fund for the debentures that, with interest at a rate not to exceed 8 per cent per annum compounded yearly, will be sufficient to pay the principal of the debentures at maturity.

(2) A by-law mentioned in subsection (1) shall provide that the amounts payable under that subsection shall be set aside and paid in accordance with subsections 247 (5) and (6) of the Act.

8. The repealing by-law mentioned in subsection 150 (1) of the *Municipal Act* shall recite the facts on which it is founded and shall be appointed to take effect on August 31 in the fiscal year of its passing.

9. (1) Subject to subsections (5) and (6), a board that receives money from the sale or hypothecation of debentures shall ensure that the money,

- (a) is kept in a separate account;
- (b) is used only for the purposes for which the board issued the debentures; and
- (c) is not applied towards payment of the current or other expenditures of the board.

(2) Despite subsection (1) and section 175 of the *Municipal Act*, a board that receives money from the sale of debentures that is not required immediately for the purpose or purposes for which the board issued the debentures may invest the money in the general fund of the board.

(3) The board shall ensure that,

- (a) the part of the money invested that is described in subsection (4) is returned to the debenture account no later than August 31 of the fiscal year in which the board invested the money; and
- (b) interest is credited to the debenture account on the money invested, at a rate equal to the rate currently applicable to the temporary borrowings of the board.

(4) The part of the money invested to which clause (3) (a) applies is the lesser of the whole of the money invested and the amount sufficient to pay,

- (a) the interest and principal payable on the debentures that become due and payable during the fiscal year following the fiscal year in which the board invested the money; and
- (b) the amounts required to be paid, during the fiscal year following the fiscal year in which the board invested the money, into a sinking fund or retirement fund established in respect of the debentures mentioned in clause (a).

(5) Subject to subsection (6), if the amount realized from the debentures is in excess of that required for the purpose or purposes for which the board issued the debentures, the board shall ensure that the excess amount is applied as follows:

1. If the amount is sufficient to redeem one or more debentures of the latest maturity, it shall be applied for that purpose if any of those debentures are redeemable.
2. If none of the debentures mentioned in paragraph 1 are redeemable or if the amount is not sufficient to redeem a debenture or if a balance remains after redemption as required by paragraph 1, the amount or the balance, as the case may be, shall be applied on the annual payments of principal and interest on the debentures until the amount or the balance, as the case may be, has all been so applied, and the amounts to be set aside and paid for that purpose shall be reduced accordingly.

- b) l'affectation, chaque année de la durée des débetures au cours de laquelle aucune autre débeture émise en vertu du même règlement administratif ne vient à échéance, d'une somme précisée pour constituer un fonds de remboursement des débetures qui, majorée des intérêts calculés à un taux annuel maximal de 8 pour cent composé annuellement, est suffisante pour rembourser le capital des débetures à leur échéance.

(2) Les règlements administratifs visés au paragraphe (1) prévoient que les sommes payables aux termes de ce paragraphe sont affectées et versées conformément aux paragraphes 247 (5) et (6) de la Loi.

8. Les règlements administratifs abrogatoires visés au paragraphe 150 (1) de la *Loi sur les municipalités* énoncent les faits sur lesquels ils se fondent et fixent leur entrée en vigueur au 31 août de l'exercice au cours duquel ils sont adoptés.

9. (1) Sous réserve des paragraphes (5) et (6), le conseil qui reçoit des sommes de la vente ou du nantissement de débetures fait en sorte que ces sommes :

- a) soient conservées dans un compte distinct;
- b) soient utilisées uniquement aux fins auxquelles le conseil a émis les débetures;
- c) ne soient pas affectées au paiement des dépenses, courantes ou autres, du conseil.

(2) Malgré le paragraphe (1) et l'article 175 de la *Loi sur les municipalités*, le conseil qui reçoit de la vente de débetures des sommes dont il n'a pas besoin immédiatement à une ou plusieurs fins auxquelles il a émis les débetures peut placer ces sommes dans son fonds d'administration générale.

(3) Le conseil fait en sorte :

- a) que la fraction des sommes placées visée au paragraphe (4) soit virée au compte des débetures au plus tard le 31 août de l'exercice au cours duquel il les a placées;
- b) que les intérêts sur les sommes placées soient portés au crédit du compte des débetures, au taux applicable à ce moment-là à ses emprunts à court terme.

(4) La fraction des sommes placées à laquelle s'applique l'alinéa (3) a) correspond au moindre de la totalité des sommes placées et de la somme suffisante pour payer ce qui suit :

- a) le capital et les intérêts exigibles sur les débetures qui viennent à échéance au cours de l'exercice qui suit celui au cours duquel le conseil a placé les sommes;
- b) les sommes qui doivent être versées, au cours de l'exercice qui suit celui au cours duquel le conseil a placé les sommes, dans un fonds d'amortissement ou un fonds de remboursement constitué à l'égard des débetures visées à l'alinéa a).

(5) Sous réserve du paragraphe (6), si le produit de la vente ou du nantissement de débetures est supérieur à la somme dont il a besoin à une ou plusieurs fins auxquelles il a émis les débetures, le conseil fait en sorte que l'excédent soit affecté comme suit :

1. Si l'excédent est suffisant pour racheter une ou plusieurs débetures dont l'échéance est la plus éloignée et que celles-ci sont rachetables, il est affecté à cette fin.
2. Si aucune des débetures visées à la disposition 1 n'est rachetable, que l'excédent n'est pas suffisant pour racheter une débeture ou qu'il y a un solde après le rachat exigé par la disposition 1, l'excédent ou le solde, selon le cas, est affecté aux versements annuels à effectuer au titre du capital et des intérêts des débetures jusqu'à épuisement de l'excédent ou du solde, selon le cas. Les sommes qui doivent être affectées et versées à cette fin sont alors réduites en conséquence.

(6) If the whole or any part of the amount realized from the sale or hypothecation of any debentures is not required for the purpose or purposes for which the debentures were issued, it may be applied to buy back the debentures or may be applied to meet the whole or a portion of any other capital expenditure of the board.

(7) If real or personal property acquired with all or part of the proceeds of the sale of debentures is sold while any part of the debentures remains outstanding, the net proceeds of the sale, to the extent of the amount of principal and interest then outstanding on the debentures, shall be applied in accordance with subsections (5) and (6).

10. The treasurer of a board in respect of which a sum is required by law to be set aside for a sinking fund shall prepare and lay before the board in every year, before the board adopts the estimates, a statement showing what amount will be required for that purpose.

11. If a deficit is sustained on the sale of all or part of an issuance of debentures of a board and all or part of the amount of the deficit is required for the purposes for which the board issued the debentures, the board shall ensure that,

- (a) the amount required is added to the sum to be raised in the first year for the payment of principal and interest on the debentures and the amount to be set aside in the first year is increased accordingly; or
- (b) the amount required is raised by the issuance of other debentures for the same or similar purpose.

12. (1) A board may by by-law borrow money for permanent improvements by way of a loan from a bank or trust company or a credit union within the meaning of the *Credit Unions and Caisses Populaires Act, 1994* with an initial maturity of more than one year.

(2) A board that obtains a loan mentioned in subsection (1) shall ensure that the proceeds of it are used for permanent improvements.

13. This Regulation comes into force on the later of January 1, 1998 and the day that subsection 113 (1) of the *Education Quality Improvement Act, 1997* comes into force.

(6) La totalité ou une partie du produit de la vente ou du nantissement de débentures qui n'est pas nécessaire à une ou plusieurs fins auxquelles elles ont été émises, peut être affectée au rachat des débentures ou au paiement total ou partiel d'autres dépenses en immobilisations du conseil.

(7) Si des biens meubles ou immeubles acquis avec tout ou partie du produit de la vente de débentures sont vendus et qu'une partie des débentures sont encore en circulation, le produit net de la vente est affecté conformément aux paragraphes (5) et (6) jusqu'à concurrence de la tranche du capital et des intérêts des débentures qui est alors impayée.

10. Le trésorier d'un conseil à l'égard duquel une somme doit être affectée aux termes de la loi à un fonds d'amortissement prépare et dépose chaque année devant le conseil, avant l'adoption des prévisions budgétaires, un état dans lequel il indique la somme qui sera nécessaire à cette fin.

11. Si la vente de tout ou partie d'une de ses émissions de débentures est déficitaire et qu'il a besoin de tout ou partie du montant du déficit aux fins auxquelles il a émis les débentures, le conseil fait en sorte :

- a) soit que la somme dont il a besoin soit ajoutée à la somme qu'il doit recueillir la première année pour payer le capital et les intérêts des débentures et que la somme à affecter la première année soit augmentée en conséquence;
- b) soit que la somme dont il a besoin soit recueillie par l'émission de nouvelles débentures à la même fin ou à une fin semblable.

12. (1) Un conseil peut, par règlement administratif, contracter auprès d'une banque, d'une société de fiducie ou d'une caisse au sens de la *Loi de 1994 sur les caisses populaires et les credit unions* un emprunt à plus d'un an pour couvrir le coût d'améliorations permanentes.

(2) Le conseil qui obtient l'emprunt visé au paragraphe (1) fait en sorte que le produit soit affecté à des améliorations permanentes.

13. Le présent règlement entre en vigueur le 1<sup>er</sup> janvier 1998 ou, s'il lui est postérieur, le jour de l'entrée en vigueur du paragraphe 113 (1) de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation*.

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## ONTARIO REGULATION 467/97

made under the  
EDUCATION ACT

Made: December 10, 1997

Filed: December 11, 1997

### DEEMED DISTRICT MUNICIPALITIES (SCHOOL AUTHORITY JURISDICTION)— TAX RATES

1. For the purpose of clause 257.12 (3) (a) of the Act, each of the following district school areas shall be deemed to be a district municipality, unless and until it becomes or is included in a municipality:

- 1. The Mine Centre District School Area.
- 2. The Summer Beaver District School Area.
- 3. The Kashabowie District School Area.
- 4. The Caramat District School Area.
- 5. The Collins District School Area.



6. The Kilkenny District School Area.
7. The Slate Falls District School Area.
8. The Sturgeon Lake District School Area.
9. The Upsala District School Area.
10. The Asquith-Garvey District School Area.
11. The Missarenda District School Area.
12. The Murchison, Lyell and Sabine District School Area.
13. The Umphreville District School Area.

2. For the purpose of clause 257.12 (3) (a) of the Act, each of the following former school sections shall be deemed to be a district municipality, unless and until it becomes or is included in a municipality:

1. The former school section known as The Allanwater District School Area.
2. The former school section known as The Armstrong District School Area.
3. The former school section known as The Auden District School Area.
4. The former school section known as The Ferland District School Area.
5. The former school section known as The Savant Lake District School Area.

3. For the purpose of clause 257.12 (3) (a) of the Act, each of the following areas shall be deemed to be a district municipality, unless and until it becomes or is included in a municipality:

1. All land within The Foleyet District School Area or the separate school zone of The Foleyet Roman Catholic Separate School Board.
2. All land within The Gogama District School Area or the separate school zone of The Gogama Roman Catholic Separate School Board.

4. For the purpose of clause 257.12 (3) (a) of the Act, the portion of The James Bay Lowlands Secondary School District that is not within the Moosonee Development Area shall be deemed to be a district municipality, unless and until it becomes or is included in a municipality.

5. For the purpose of clause 257.12 (3) (a) of the Act, the portions of the geographic townships of Baird and Heyson that are not within The Township of Red Lake in the Territorial District of Kenora shall be deemed to be a district municipality, unless and until they become or are included in a municipality.

6. This Regulation comes into force on the later of January 1, 1998 and the day section 31 of the *Education Quality Improvement Act, 1997* comes into force.

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**ONTARIO REGULATION 468/97**  
made under the  
**EDUCATION ACT**

Made: December 10, 1997

Filed: December 11, 1997

**DEEMED DISTRICT MUNICIPALITIES (DISTRICT  
SCHOOL BOARD JURISDICTION)—TAX RATES**

1. (1) Subject to subsection (2), for the purpose of clause 257.12 (3) (a) of the Act, each of the following that is not within a district municipality set out in O. Reg. 467/97 (*Deemed District Municipalities (School Authority Jurisdiction)—Tax Rates*) shall be deemed to be a district municipality, unless and until it becomes or is included in a municipality:

1. Every school section in existence on December 31, 1968 that comprised only territory without municipal organization, except a school section established under section 67 or 68.
2. Any part of territory without municipal organization that on December 31, 1968 was part of a high school district but was not in a school section.
3. Any part of territory without municipal organization that was designated by a regulation made under subsection 55 (1) of the Act, as it read on December 31, 1997, or a predecessor of that subsection, as a district municipality or that was added to a school division without being so designated and that on December 31, 1968 was not in a school section or in a high school district.

(2) For the purpose of clause 257.12 (3) (a) of the Act, if an area described in subsection (1) is partly within a separate school zone,

- (a) the portion of the area that is within the separate school zone shall be deemed to be a district municipality, unless and until it becomes or is included in a municipality; and
- (b) the portion of the area that is outside the separate school zone shall be deemed to be a district municipality, unless and until it becomes or is included in a municipality.

2. For the purpose of clause 257.12 (3) (a) of the Act, the geographic township of Dickens in the Territorial District of Nipissing and the portion of the geographic township of Murchison, in the Territorial District of Nipissing, that is not in The Murchison, Lyell and Sabine District School Area, shall be deemed to be a district municipality, unless and until they become or are included in a municipality.

3. This Regulation comes into force on the later of January 1, 1998 and the day section 32 of the *Education Quality Improvement Act, 1997* comes into force.

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**ONTARIO REGULATION 469/97****made under the  
EDUCATION ACT**

Made: December 10, 1997

Filed: December 11, 1997

**DEBT AND FINANCIAL OBLIGATION LIMITS**

1. The debt and financial obligation and liability limits for a district school board for the period January 1, 1998 to August 31, 1998 shall be determined under this Regulation using the formula described in section 3.

2. The limits, as updated under section 4, shall be used by a district school board to determine whether the approval of the Minister is required in respect of the following debt or financial obligations:

1. Long-term debt assumed by the board for which repayment will be required beyond the term for which the members of the board were elected.
2. Other financial commitments, liabilities and contractual obligations for which payment will be required beyond the term for which the members of the board were elected, including lease agreements.

3. The debt and financial obligation and liability limits shall be determined as follows:

1. Estimate the revenue fund expenditures of the board for the period January 1, 1998 to August 31, 1998.
2. Multiply the amount obtained in paragraph 1 by 10 per cent.
3. Subtract from the amount obtained in paragraph 2, 62 per cent of the sum of the annual payments in respect of the long-term debt and the other financial commitments liabilities and contractual obligations of the board described in paragraphs 1 and 2 of section 2.

4. (1) Before authorizing any specific work or class of work that would require the incurring of a long-term debt or financial obligation described in section 2, the district school board shall have its treasurer calculate updated limits using the most recent debt and financial obligation and liability limits as determined under section 3.

(2) The treasurer shall update the most recent debt and financial obligation and liability limits determined under section 3 as follows:

1. From the amount obtained in section 3, subtract 62 per cent of the estimated annual amount payable in respect of any project approved by the Minister or the board, as the case may be, to be financed by long-term debt or financial obligation described in section 2 but not as yet assumed, unless the board has by resolution indicated that it will not proceed with that project.

(3) The treasurer shall calculate 62 per cent of the estimated annual amount payable by the board in respect of the work.

(4) If the amount calculated under subsection (3) exceeds the amount updated under subsection (2), the board must obtain the approval of the Minister before authorizing the work.

5. Ontario Regulation 265/94 is revoked.

**RÈGLEMENT DE L'ONTARIO 469/97****pris en application de la  
LOI SUR L'ÉDUCATION**

pris le 10 décembre 1997

déposé le 11 décembre 1997

**PLAFONDS DES DETTES ET DES  
OBLIGATIONS FINANCIÈRES**

1. Les plafonds que peuvent atteindre les dettes, les obligations financières et les engagements d'un conseil scolaire de district pour la période comprise entre le 1<sup>er</sup> janvier 1998 et le 31 août 1998 sont calculés aux termes du présent règlement au moyen de la formule prévue à l'article 3.

2. Le conseil scolaire de district se sert des plafonds, tels qu'ils sont mis à jour aux termes de l'article 4, pour déterminer si l'approbation du ministre est exigée à l'égard des dettes ou obligations financières suivantes :

1. Les dettes à long terme qu'il prend en charge et dont le remboursement se prolongera au-delà du mandat des membres du conseil.
2. Les autres engagements, financiers ou autres, et obligations contractuelles dont le paiement se prolongera au-delà du mandat des membres du conseil, y compris les conventions de bail.

3. Les plafonds des dettes, des obligations financières et des engagements se calculent comme suit :

1. Évaluer les dépenses courantes du conseil pour la période comprise entre le 1<sup>er</sup> janvier 1998 et le 31 août 1998.
2. Multiplier la somme obtenue aux termes de la disposition 1 par 10 pour cent.
3. Du produit obtenu aux termes de la disposition 2, soustraire 62 pour cent du total des versements annuels à l'égard de la dette à long terme et des autres engagements, financiers ou autres, et obligations contractuelles du conseil visés aux dispositions 1 et 2 de l'article 2.

4. (1) Avant d'autoriser un travail particulier ou une catégorie de travaux qui l'obligerait à contracter une dette à long terme ou une obligation financière visée à l'article 2, le conseil scolaire de district demande à son trésorier de calculer les plafonds mis à jour en se servant des plafonds des dettes, des obligations financières et des engagements les plus récents, tels qu'ils sont calculés aux termes de l'article 3.

(2) Le trésorier met à jour les plafonds des dettes, des obligations financières et des engagements les plus récents calculés aux termes de l'article 3 comme suit :

1. De la somme obtenue aux termes de l'article 3, il soustrait 62 pour cent de la somme annuelle estimative qui sera exigible à l'égard de tout projet qu'approuve le ministre ou le conseil, selon le cas, et dont le financement proviendra des dettes à long terme ou d'obligations financières visées à l'article 2 mais non encore prises en charge, à moins que le conseil n'ait indiqué, par voie de résolution, qu'il ne donnera pas suite au projet.

(3) Le trésorier calcule 62 pour cent de la somme annuelle estimative que le conseil doit payer à l'égard du travail ou des travaux.

(4) Si la somme calculée aux termes du paragraphe (3) dépasse la somme mise à jour aux termes du paragraphe (2), le conseil doit obtenir l'approbation du ministre avant d'autoriser le travail ou les travaux.

5. Le Règlement de l'Ontario 265/94 est abrogé.

6. This Regulation comes into force on the later of January 1, 1998 and the day that section 113 of the *Education Quality Improvement Act, 1997* comes into force.

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**ONTARIO REGULATION 470/97**  
made under the  
**EDUCATION ACT**

Made: December 10, 1997  
Filed: December 11, 1997

**FINANCIAL STATEMENTS AND AUDITOR'S  
REPORTS FOR OLD BOARDS**

1. (1) A district school board shall at its first meeting in 1998 or as soon as possible after the first meeting require its treasurer to prepare the financial statements for 1997 for each old board that was merged into the district school board by a regulation made under clause 58.1 (2) (h) of the Act.

(2) Instead of requiring its treasurer to prepare the financial statements mentioned in subsection (1), the district school board may require the person who was the treasurer of the old board to prepare the old board's financial statements if that person is an employee of the district school board.

(3) A person required to prepare financial statements under this section shall do so in accordance with the direction of the district school board and shall do so as soon as reasonably possible.

2. (1) A district school board shall obtain an auditor's report on the financial statements required to be prepared under section 1 as soon as reasonably possible after the financial statements have been prepared.

(2) Upon receipt of the auditor's report, the treasurer of the district school board shall promptly give the Ministry of Education and Training two copies of the auditor's report and two copies of the financial statements mentioned in subsection (1).

(3) Within one month after the district school board has received the auditor's report, the treasurer of the district school board shall,

- (a) publish the financial statements to which the auditor's report relates, and the auditor's report, in a daily or weekly newspaper that, in the opinion of the treasurer, has sufficient circulation within the area of jurisdiction of the old board in respect of which the financial statements were prepared, to provide reasonable notice to those affected by them; or
- (b) mail or deliver a copy of the financial statements and auditor's report to each of the old board's supporters.

(4) The financial statements and auditor's report published, mailed or delivered under subsection (3) shall be in the same form as financial statements and auditor's report prepared under subsection 252 (2) of the Act.

(5) For purposes of obtaining the auditor's report mentioned in subsection (1), the district school board shall retain the person who was the auditor of the old board to prepare the audit report on the financial statements of the old board, unless that is not reasonably possible and, if that person is retained, the district school board is subject to the same rights and obligations as the old board would have been had the retainer of the auditor by the old board been continued.

3. This Regulation comes into force on the day that section 113 of the *Education Quality Improvement Act, 1997* comes into force.

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6. Le présent règlement entre en vigueur le 1<sup>er</sup> janvier 1998 ou, s'il lui est postérieur, le jour de l'entrée en vigueur de l'article 113 de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation*.

**RÈGLEMENT DE L'ONTARIO 470/97**  
pris en application de la  
**LOI SUR L'ÉDUCATION**

pris le 10 décembre 1997  
déposé le 11 décembre 1997

**ÉTATS FINANCIERS ET RAPPORTS DU  
VÉRIFICATEUR DES ANCIENS CONSEILS**

1. (1) À la première réunion qu'il tient en 1998 ou le plus tôt possible par la suite, le conseil scolaire de district demande à son trésorier de préparer les états financiers pour 1997 de chaque ancien conseil qu'il a absorbé par fusion par règlement pris en application de l'alinéa 58.1 (2) h) de la Loi.

(2) Au lieu de demander à son trésorier de préparer les états financiers visés au paragraphe (1), le conseil scolaire de district peut demander à la personne qui était trésorier de l'ancien conseil de préparer les états financiers de ce conseil si elle est un employé du conseil scolaire de district.

(3) Toute personne tenue de préparer des états financiers aux termes du présent article le fait conformément aux directives du conseil scolaire de district dès que cela est raisonnablement possible.

2. (1) Le conseil scolaire de district obtient le rapport d'un vérificateur sur les états financiers qui doivent être préparés aux termes de l'article 1 dès que cela est raisonnablement possible après la préparation de ces états financiers.

(2) À la réception du rapport du vérificateur, le trésorier du conseil scolaire de district remet promptement deux copies du rapport du vérificateur et deux copies des états financiers visés au paragraphe (1) au ministère de l'Éducation et de la Formation.

(3) Dans le mois qui suit la réception du rapport du vérificateur par le conseil scolaire de district, le trésorier de celui-ci fait :

- a) soit publier les états financiers visés par le rapport du vérificateur ainsi que le rapport du vérificateur dans un quotidien ou un hebdomadaire dont la diffusion dans le territoire de compétence de l'ancien conseil à l'égard duquel les états financiers ont été préparés est suffisante, selon lui, pour que les personnes visées en reçoivent un avis raisonnable;
- b) soit envoyer par la poste ou remettre à chaque contribuable de l'ancien conseil une copie des états financiers et du rapport du vérificateur.

(4) Les états financiers et le rapport du vérificateur sont publiés, envoyés par la poste ou remis aux termes du paragraphe (3) sous la même forme que les états financiers et le rapport du vérificateur préparés aux termes du paragraphe 252 (2) de la Loi.

(5) Pour obtenir le rapport du vérificateur visé au paragraphe (1), le conseil scolaire de district retient les services de la personne qui était le vérificateur de l'ancien conseil pour qu'elle prépare le rapport de vérification sur les états financiers de l'ancien conseil à moins que cela ne soit pas raisonnablement possible. S'il retient les services de cette personne, le conseil scolaire de district a les mêmes droits et obligations que l'ancien conseil aurait eus s'il avait continué de retenir les services du vérificateur.

3. Le présent règlement entre en vigueur le jour où l'article 113 de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation* entre en vigueur.



## ONTARIO REGULATION 471/97

made under the  
EDUCATION ACT

Made: December 10, 1997

Filed: December 11, 1997

## ELIGIBLE INVESTMENTS

1. A board does not have the power under section 241 of the Act to invest in a security other than a security prescribed under this Regulation.

2. The following are prescribed as securities that a board may invest in:

1. Bonds, debentures, promissory notes or other evidence of indebtedness issued or guaranteed by,
  - i. Canada or a province or territory of Canada,
  - ii. an agency of Canada or a province or territory or Canada,
  - iii. a municipality in Canada,
  - iv. a board or similar entity in Canada,
  - v. the Municipal Finance Authority of British Columbia.
2. Bonds, debentures, promissory notes or other evidence of indebtedness of a corporation if,
  - i. the bond, debenture or other evidence of indebtedness is secured by the assignment to a trustee, as defined in the *Trustee Act*, of payments that Canada or a province or territory of Canada has agreed to make or is required to make under a federal, provincial or territorial statute, and
  - ii. the payments referred to in subparagraph i are sufficient to meet the amounts payable under the bond, debenture or other evidence of indebtedness, including the amounts payable at maturity.
3. Deposit receipts, deposit notes, certificates of deposit or investment, acceptances or similar instruments issued, guaranteed or endorsed by,
  - i. a bank listed in Schedule I or II to the *Bank Act* (Canada),
  - ii. a loan corporation or trust corporation registered under the *Loan and Trust Corporations Act*,
  - iii. a credit union or league to which the *Credit Unions and Caisses Populaires Act, 1994* applies, or
  - iv. the Province of Ontario Savings Office.
4. Bonds, debentures or evidences of long-term indebtedness issued or guaranteed by an institution listed in paragraph 3.
5. Short term securities, the terms of which provide that the principal and interest shall be fully repaid no later than three days after the day the investment was made, that are issued by,
  - i. the board of governors of a college of applied arts and technology established under section 5 of the *Ministry of Colleges and Universities Act*,

## RÈGLEMENT DE L'ONTARIO 471/97

pris en application de la  
LOI SUR L'ÉDUCATION

pris le 10 décembre 1997

déposé le 11 décembre 1997

## PLACEMENTS ADMISSIBLES

1. Un conseil n'a pas, en vertu de l'article 241 de la Loi, le pouvoir de placer des sommes dans d'autres valeurs mobilières que celles qui sont prescrites aux termes du présent règlement.

2. Les valeurs mobilières prescrites dans lesquelles le conseil peut placer des sommes sont les suivantes :

1. Les obligations, débentures, billets à ordre ou autres titres de créance émis ou garantis par :
  - i. le gouvernement du Canada ou celui d'une province ou d'un territoire du Canada,
  - ii. un organisme du gouvernement du Canada ou de celui d'une province ou d'un territoire du Canada,
  - iii. une municipalité située au Canada,
  - iv. un conseil ou une entité similaire situé au Canada,
  - v. le Municipal Finance Authority of British Columbia.
2. Les obligations, débentures, billets à ordre ou autres titres de créance d'une personne morale, si :
  - i. d'une part, les obligations, débentures ou autres titres de créance sont garantis par la cession à un fiduciaire, au sens de la *Loi sur les fiduciaires*, des versements que le gouvernement du Canada ou celui d'une province ou d'un territoire du Canada a convenu de faire ou est tenu de faire aux termes d'une loi fédérale, provinciale ou territoriale,
  - ii. d'autre part, les versements visés à la sous-disposition i sont suffisants pour couvrir les sommes exigibles aux termes des obligations, débentures ou autres titres de créance, y compris les sommes exigibles à leur échéance.
3. Les récépissés de dépôt, billets de dépôt, certificats de dépôt ou de placement, acceptations ou instruments semblables qui sont émis, garantis ou endossés par :
  - i. une banque mentionnée à l'annexe I ou II de la *Loi sur les banques* (Canada),
  - ii. une société de prêt ou de fiducie inscrite aux termes de la *Loi sur les sociétés de prêt et de fiducie*,
  - iii. une caisse ou une fédération à laquelle s'applique la *Loi de 1994 sur les caisses populaires et les credit unions*,
  - iv. la Caisse d'épargne de l'Ontario.
4. Les obligations, débentures ou titres de créance à long terme qui sont émis ou garantis par un établissement mentionné à la disposition 3.
5. Les valeurs mobilières à court terme dont les conditions précisent que le capital et les intérêts doivent être intégralement remboursés au plus tard trois jours après le jour où le placement a été effectué et qui sont émises par l'un ou l'autre des organismes suivants :
  - i. le conseil d'administration d'un collège d'arts appliqués et de technologie ouvert en vertu de l'article 5 de la *Loi sur le ministère des Collèges et Universités*,



ii. a degree granting institution as authorized under section 3 of the *Degree Granting Act*, or

iii. a board as defined in the *Public Hospitals Act*.

3. (1) A board shall not invest in a security under paragraph 4 of section 2 unless the bond, debenture, promissory note or evidence of indebtedness is rated,

- (a) by Canadian Bond Rating Service Inc. as "AA—" or higher;
- (b) by Dominion Bond Rating Service Limited as "AA(low)" or higher;
- (c) by Moody's Investors Services Inc. as "Aa3" or higher; or
- (d) by Standard and Poor's Inc. as "AA—" or higher.

(2) If an investment made under paragraph 4 of section 2 falls below the standard required under subsection (1), the board shall sell the investment within 90 days after the day the investment falls below the standard.

4. A board shall not invest in a security issued or guaranteed by a board or similar entity unless,

- (a) the money raised by issuing the security is to be used for school purposes; and
- (b) the security is to be repaid entirely from the taxes or charges levied on property, with grants or appropriations made by the government of Canada or a province or territory of Canada or a municipality, or from a combination of such taxes, charges, grants and appropriations.

5. (1) A board shall not invest in a security that is expressed or payable in any currency other than Canadian dollars.

(2) Subsection (1) does not prevent a board from continuing an investment, made before this Regulation comes into force, that is expressed and payable in the currency of the United States of America or the United Kingdom.

6. Before a board invests in a security prescribed under this Regulation, the board shall, if it has not already done so, adopt a statement of the board's investment policies and goals.

7. (1) If a board has an investment in a security prescribed under this Regulation, the board shall require the treasurer of the board to prepare and provide to the board, each year or more frequently if so required by the board, an investment report.

(2) The investment report referred to in subsection (1) shall contain,

- (a) a statement about the performance of the portfolio of investments of the board during the period covered by the report;
- (b) a description of the estimated proportion of the total investments of a board that are invested in its own long-term and short-term securities to the total investment of the board and a description of the change, if any, in that estimated proportion since the previous year's report;

ii. un établissement qui attribue des grades universitaires en vertu de l'autorisation visée à l'article 3 de la *Loi sur l'attribution de grades universitaires*,

iii. un conseil au sens de la *Loi sur les hôpitaux publics*.

3. (1) Le conseil ne doit pas placer de sommes dans une valeur mobilière visée à la disposition 4 de l'article 2 à moins que l'obligation, la débenture, le billet à ordre ou le titre de créance n'ait reçu l'une ou l'autre des cotes suivantes :

- a) la cote «AA—» ou une cote supérieure, de la Société canadienne d'évaluation du crédit;
- b) la cote «AA (low)» ou une cote supérieure, du Dominion Bond Rating Service Limited;
- c) la cote «Aa3» ou une cote supérieure, de Moody's Investors Services Inc.;
- d) la cote «AA—» ou une cote supérieure, de Standard and Poor's Inc.

(2) Si le placement effectué en vertu de la disposition 4 de l'article 2 ne respecte plus la norme exigée par le paragraphe (1), le conseil vend le placement dans les 90 jours qui suivent le jour où le placement ne respecte plus cette norme.

4. Le conseil ne doit pas placer de sommes dans une valeur mobilière émise ou garantie par un conseil ou une entité similaire à moins que les conditions suivantes ne soient réunies :

- a) les sommes recueillies par l'émission de la valeur mobilière doivent être affectées aux fins scolaires;
- b) la valeur mobilière doit être remboursée intégralement au moyen des impôts, droits ou redevances prélevés sur des biens, de subventions ou affectations de crédits reçues du gouvernement du Canada, de celui d'une province ou d'un territoire du Canada ou d'une municipalité, ou d'une combinaison de tels impôts, droits, redevances, subventions et affectations.

5. (1) Le conseil ne doit pas placer de sommes dans une valeur mobilière libellée ou remboursable dans une autre devise que le dollar canadien.

(2) Le paragraphe (1) n'a pas pour effet d'empêcher le conseil de conserver un placement effectué avant l'entrée en vigueur du présent règlement qui est libellé et remboursable en devises des États-Unis d'Amérique ou du Royaume-Uni.

6. Avant de placer des sommes dans une valeur mobilière prescrite aux termes du présent règlement, le conseil adopte, si cela n'est pas déjà fait, une déclaration sur les politiques et objectifs du conseil en matière de placements.

7. (1) S'il a placé des sommes dans une valeur mobilière prescrite aux termes du présent règlement, le conseil demande à son trésorier de préparer un rapport sur les placements et de le lui remettre tous les ans ou à intervalles plus fréquents à sa demande.

(2) Le rapport sur les placements visé au paragraphe (1) comprend ce qui suit :

- a) un état sur le rendement du portefeuille de placements du conseil pendant la période visée par le rapport;
- b) une estimation du rapport qui existe entre l'ensemble des placements du conseil qui portent sur ses propres valeurs mobilières à long terme et à court terme et la valeur totale de ses placements, de même qu'une description de tout changement survenu, le cas échéant, dans cette estimation depuis la préparation du rapport de l'année précédente;

- (c) a statement by the treasurer as to whether or not, in his or her opinion, all investments were made in accordance with the investment policies and goals adopted by the board;
- (d) a record of the date of each transaction in or disposal of its own securities, including a statement of the purchase and sale price of each security; and
- (e) such other information that the board may require or that, in the opinion of the treasurer, should be included.

8. (1) Despite this Regulation, an investment by an old board or a school authority in bonds, debentures or other indebtedness of a corporation made before the day this Regulation comes into force may be continued if the bond, debenture or other indebtedness is rated,

- (a) by Canadian Bond Rating Service Inc. as "AA—" or higher;
- (b) by Dominion Bond Rating Service Limited as "AA(low)" or higher;
- (c) by Moody's Investors Services Inc. as "Aa3" or higher; or
- (d) by Standard and Poor's Inc. as "AA—" or higher.

(2) If the rating of an investment continued under subsection (1) falls below the standard required by that subsection, the board shall sell the investment within 90 days after the day the investment falls below the standard.

9. This Regulation comes into force on the day that section 113 of the *Education Quality Improvement Act, 1997* comes into force.

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- c) une déclaration du trésorier portant que, selon lui, tous les placements ont été ou non effectués conformément aux politiques et objectifs du conseil en matière de placements;
- d) un relevé de la date de chaque opération portant sur les valeurs mobilières émises par le conseil et de chaque aliénation de telles valeurs, y compris un relevé du prix d'achat et du prix de vente de chacune d'elles;
- e) tout autre renseignement qu'exige le conseil ou qui devrait être inclus de l'avis du trésorier.

8. (1) Malgré le présent règlement, le placement qu'un ancien conseil ou une administration scolaire a effectué dans une obligation, une débenture ou un autre titre de créance d'une personne morale avant le jour de l'entrée en vigueur du présent règlement peut être conservé si l'obligation, la débenture ou l'autre titre de créance a reçu l'une ou l'autre des cotes suivantes :

- a) la cote «AA—» ou une cote supérieure, de la Société canadienne d'évaluation du crédit;
- b) la cote «AA (low)» ou une cote supérieure, du Dominion Bond Rating Service Limited;
- c) la cote «Aa3» ou une cote supérieure, de Moody's Investors Services Inc.;
- d) la cote «AA—» ou une cote supérieure, de Standard and Poor's Inc.

(2) Si la cote du placement conservé en vertu du paragraphe (1) ne respecte plus la norme exigée par ce paragraphe, le conseil vend le placement dans les 90 jours qui suivent le jour où le placement ne respecte plus cette norme.

9. Le présent règlement entre en vigueur le jour où l'article 113 de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation* entre en vigueur.

#### ONTARIO REGULATION 472/97 made under the EDUCATION ACT

Made: December 10, 1997  
Filed: December 11, 1997

#### PRINCIPALS AND VICE-PRINCIPALS OF SCHOOL AUTHORITIES

1. Each of the following provisions apply, as of the day the provision comes into force, to principals and vice-principals who are employed by a school authority both on December 31, 1997 and January 1, 1998:

- 1. Subsections 277.11 (2) to (5) of the Act.
- 2. Subsection 287.2 (2) of the Act.
- 3. Subsection 287.2 (3) of the Act.

2. This Regulation comes into force on January 1, 1998.

3. This Regulation is revoked on September 1, 2000.

#### RÈGLEMENT DE L'ONTARIO 472/97 pris en application de la LOI SUR L'ÉDUCATION

pris le 10 décembre 1997  
déposé le 11 décembre 1997

#### DIRECTEURS D'ÉCOLE ET DIRECTEURS ADJOINTS DES ADMINISTRATIONS SCOLAIRES

1. Chacune des dispositions suivantes s'applique, à partir du jour de son entrée en vigueur, aux directeurs d'école et aux directeurs adjoints qui sont employés par une administration scolaire et le 31 décembre 1997 et le 1<sup>er</sup> janvier 1998 :

- 1. Les paragraphes 277.11 (2) à (5) de la Loi.
- 2. Le paragraphe 287.2 (2) de la Loi.
- 3. Le paragraphe 287.2 (3) de la Loi.

2. Le présent règlement entre en vigueur le 1<sup>er</sup> janvier 1998.

3. Le présent règlement est abrogé le 1<sup>er</sup> septembre 2000.

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**ONTARIO REGULATION 473/97**  
made under the  
**EDUCATION ACT**

Made: December 10, 1997  
Filed: December 11, 1997

Amending Reg. 295 of R.R.O. 1990  
(Northern District School Area Board)

Note: Since January 1, 1997, Regulation 295 has been amended by Ontario Regulations 186/97 and 395/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. The definition of "residential property" in section 1 of Regulation 295 of the Revised Regulations of Ontario, 1990 is revoked.**

**2. This Regulation comes into force on January 1, 1998.**

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**ONTARIO REGULATION 474/97**  
made under the  
**EDUCATION ACT**

Made: December 10, 1997  
Filed: December 11, 1997

Amending Reg. 294 of R.R.O. 1990  
(James Bay Lowlands Secondary School Board)

Note: Regulation 294 has been amended by Ontario Regulation 394/97.

**1. (1) The definition of "equalized assessment" in section 1 of Regulation 294 of the Revised Regulations of Ontario, 1990 is revoked.**

**(2) The definition of "residential property" in section 1 of the Regulation is revoked.**

**2. Section 7 of the Regulation is revoked.**

**3. This Regulation comes into force on January 1, 1998.**

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**ONTARIO REGULATION 475/97**  
made under the  
**DEVELOPMENT CHARGES ACT**

Made: December 10, 1997  
Filed: December 11, 1997

Amending Reg. 268 of R.R.O. 1990  
(Education Development Charges)

Note: Regulation 268 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. The definitions of "construction cost", "cost of site purchase", "elementary rate of grant", "local share", "project", "secondary**

**rate of grant" and "treasurer" as set out in section 1 of Regulation 268 of the Revised Regulations of Ontario, 1990 are revoked and the following substituted:**

"construction cost" means the construction cost of providing pupil accommodation, approved by the Minister of Education and Training, for the purposes of payment of a legislative grant under section 234 of the *Education Act*;

"cost of site purchase", in respect of a site acquired or proposed to be acquired by a board for the purpose of a project that provides pupil accommodation, means the cost approved by the Minister of Education and Training for the purposes of payment of a legislative grant under section 234 of the *Education Act*;

"elementary rate of grant" means the percentage of the construction cost of an elementary school project or of the cost of site purchase of an elementary school project that may be financed by a legislative grant under section 234 of the *Education Act*;

"local share" means the portion of the cost of a project approved by the Minister of Education and Training for the purposes of payment of a legislative grant under section 234 of the *Education Act* that may be financed by money collected under an education development charge;

"project" means a plan for school facilities that represents an education capital cost and that is approved by the Minister of Education and Training;

"secondary rate of grant" means the percentage of the construction cost of a secondary school project or of the cost of site purchase of a secondary school project that may be financed by a legislative grant under section 234 of the *Education Act*;

"treasurer" means the treasurer of a board.

**2. The heading immediately before section 2 of the Regulation is revoked and the following substituted:**

**CONDITIONS TO THE PASSAGE OF BY-LAW**

**3. Section 2 of the Regulation is revoked and the following substituted:**

**2. (1) A board shall not pass an education development charge by-law unless the following conditions are met:**

1. The Minister of Education and Training has approved the board's estimates of the projected elementary enrolment and secondary enrolment for each year of the term of the proposed education development charge by-law and, in at least one year, the projected elementary enrolment exceeds the elementary pupil place capacity or the projected secondary enrolment exceeds the secondary pupil place capacity.

2. Every board that has territorial jurisdiction in the area in which the proposed education development charge by-law is to apply has approved in writing the board's elementary yield factors and secondary yield factors or, in the absence of those approvals, the Minister of Education and Training has approved the board's elementary yield factors and secondary yield factors.



3. The Minister of Education and Training has approved the board's estimates of the number of growth-related new elementary school pupils and growth-related new secondary school pupils.
4. The Minister of Education and Training has approved the number of elementary school projects and the number of secondary school projects that the board proposes to use to provide accommodation for the estimated growth-related new elementary school pupils and the estimated growth-related new secondary school pupils.
5. The board can document its efforts to make long-term lease arrangements or other arrangements with other boards, municipalities or the private sector to accommodate the estimated growth-related new elementary school pupils and growth-related new secondary school pupils, and the results of those efforts.

(2) In subsection (1),

"elementary enrolment" means the enrolment as determined by the Minister of Education and Training for the purpose of the calculation of legislative grants under section 234 of the *Education Act* for new elementary pupil places;

"elementary pupil place capacity" means the number of pupil places counted by the Minister of Education and Training for the purpose of the calculation of legislative grants under section 234 of the *Education Act* for new elementary pupil places;

"secondary enrolment" means the enrolment as determined by the Minister of Education and Training for the purpose of the calculation of legislative grants under section 234 of the *Education Act* for new secondary pupil places;

"secondary pupil place capacity" means the number of pupil places counted by the Minister of Education and Training for the purpose of the calculation of legislative grants under section 234 of the *Education Act* for new secondary pupil places.

**4. Subsection 5 (7) of the Regulation is amended by striking out "Minister of Education for the purposes of payment of a legislative grant under subsection 11 (3)" in the first and second lines and substituting "Minister of Education and Training for the purposes of payment of a legislative grant under section 234".**

**5. Section 6 of the Regulation is revoked and the following substituted:**

6. (1) Money may be withdrawn from an education development charges account for the purpose of making investments permitted under clause 241 (1) (a) of the *Education Act*.

(2) During the year that begins on the day section 241 of the *Education Act* comes into force and ends on the first anniversary of that day, subsection (1) as it read on December 31, 1997, continues to apply

to investments made before the day that section 241 of the *Education Act* comes into force.

(3) An investment to which subsection (2) applies shall not be continued past the end of the year mentioned in subsection (2) unless the investment is in a security or class of securities that is prescribed under clause 241 (6) (b) of the *Education Act*.

(4) Money held in a joint education development charges account may only be withdrawn under subsection (1) or (2) if the investments made are held jointly by the boards in whose name the account is held.

**6. Section 7 of the Regulation is amended by striking out "Minister of Education" in the second and third lines in the portion before clause 7 (a) and substituting "Minister of Education and Training".**

**7. The Regulation is further amended by adding the following heading and section:**

#### INDUSTRIAL DEVELOPMENT EXEMPTION

**9.2 (1)** If a development includes the enlargement of the gross floor area of an existing industrial building, the amount of the education development charge that is payable under an education development charge by-law passed on or after January 1, 1998 is determined in accordance with this section.

(2) If the gross floor area is enlarged by 50 per cent or less, the amount of the education development charge in respect of the enlargement is zero.

(3) If the gross floor area is enlarged by more than 50 per cent, the amount of the education development charge in respect of the enlargement is the amount of the education development charge that would otherwise be payable multiplied by the fraction determined as follows:

1. Determine the amount by which the enlargement exceeds 50 per cent of the gross floor area before the enlargement.
2. Divide the amount determined under paragraph 1 by the amount of the enlargement.

(4) In this section,

"existing industrial building" means an existing industrial building assessed as manufacturing and industrial for municipal taxation purposes;

"gross floor area" means the total floor area, measured between the outside of exterior walls or between the outside of exterior walls and the centre line of party walls dividing the building from another building, of all floors above the average level of finished ground adjoining the building at its exterior walls.

**8. This Regulation comes into force on January 1, 1998.**

**ONTARIO REGULATION 476/97**made under the  
**MENTAL HEALTH ACT**

Made: December 10, 1997

Filed: December 12, 1997

Amending Reg. 741 of R.R.O. 1990  
(General)

Note: Regulation 741 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. (1) Schedule 1 to Regulation 741 of the Revised Regulations of Ontario, 1990 is amended by adding the following item:**

01. Ajax Ajax and Pickering General Hospital

**(2) Item 73 of Schedule 1 to the Regulation is revoked and the following substituted:**

73. Toronto The Wellesley Central Hospital

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**RÈGLEMENT DE L'ONTARIO 476/97**pris en application de la  
**LOI SUR LA SANTÉ MENTALE**

pris le 10 décembre 1997

déposé le 12 décembre 1997

modifiant le Règl. 741 des R.R.O. de 1990  
(Dispositions générales)

Remarque : Le Règlement 741 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. (1) L'annexe 1 du Règlement 741 des Règlements refondus de l'Ontario de 1990 est modifiée par adjonction du point suivant :**

01. Ajax Hôpital général d'Ajex et de Pickering

**(2) Le point 73 de l'annexe 1 du Règlement est abrogé et remplacé par ce qui suit :**

73. Toronto Hôpital central Wellesley

**ONTARIO REGULATION 477/97**made under the  
**PRIVATE HOSPITALS ACT**

Made: December 10, 1997

Filed: December 12, 1997

Amending Reg. 937 of R.R.O. 1990  
(General)

Note: Regulation 937 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Section 22 of Regulation 937 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

**22. (1)** Every licence held under the Act shall be held for a one-year term that begins on April 1 of every year and ends on March 31 of the following year.

**(2)** Despite subsection (1), every licence that is renewed under the Act effective as of January 1, 1997 shall expire on March 31, 1998 and be renewed on April 1, 1998 for a term of one year.

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**RÈGLEMENT DE L'ONTARIO 477/97**pris en application de la  
**LOI SUR LES HÔPITAUX PRIVÉS**

pris le 10 décembre 1997

déposé le 12 décembre 1997

modifiant le Règl. 937 des R.R.O. de 1990  
(Dispositions générales)

Remarque : Le Règlement 937 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. L'article 22 du Règlement 937 des Règlements refondus de l'Ontario de 1990 est abrogé et remplacé par ce qui suit :**

**22. (1)** Tout permis détenu aux termes de la Loi l'est pour une période d'un an commençant le 1<sup>er</sup> avril de chaque année et se terminant le 31 mars de l'année suivante.

**(2)** Malgré le paragraphe (1), tout permis qui est renouvelé aux termes de la Loi à compter du 1<sup>er</sup> janvier 1997 expire le 31 mars 1998 et est renouvelé le 1<sup>er</sup> avril 1998 pour une période d'un an.

**ONTARIO REGULATION 478/97**  
made under the  
**FREEDOM OF INFORMATION AND  
PROTECTION OF PRIVACY ACT**

Made: December 10, 1997  
Filed: December 12, 1997

Amending Reg. 460 of R.R.O. 1990  
(General)

Note: Since January 1, 1997, Regulation 460 has been amended by Ontario Regulation 26/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. The Schedule to Regulation 460 of the Revised Regulations of Ontario, 1990 is amended by striking out items 1, 42, 43.1, 51, 66, 90, 121.01, 122, 126.1, 127, 137, 137.1, 190, 212, 215 and 237 and adding the following items:**

16.	Agricorp	Chair of the Board
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. . . . .

60.1	Education Improvement Commission	Minister of Education and Training
60.2	Education Quality and Accountability Office	Chair

. . . . .

181.	Ontario Review Board	Chair of the Board
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. . . . .

190.	Ontario VL Corporation Ltd.	President
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16.	Agricorp	Président du conseil d'administration
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. . . . .

60.1	Commission d'amélioration de l'éducation	Ministre de l'Éducation et de la Formation
60.2	Office de la qualité et de la responsabilité en éducation	Président du conseil d'administration

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181.	Commission ontarienne d'examen	Président de la Commission
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. . . . .

190.	Ontario VL Corporation Ltd.	Président
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**2. Form 2 of the Regulation is amended by inserting the following sentence at the top of the Form:**

There is a fee of \$5.00 to file an access request.

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**RÈGLEMENT DE L'ONTARIO 478/97**  
pris en application de la  
**LOI SUR L'ACCÈS À L'INFORMATION ET LA  
PROTECTION DE LA VIE PRIVÉE**

pris le 10 décembre 1997  
déposé le 12 décembre 1997

modifiant le Règl. 460 des R.R.O. de 1990  
(Dispositions générales)

Remarque : Depuis le 1<sup>er</sup> janvier 1997, le Règlement 460 a été modifié par le Règlement de l'Ontario 26/97. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. L'annexe du Règlement 460 des Règlements refondus de l'Ontario de 1990 est modifiée par suppression des numéros 1, 42, 43.1, 51, 66, 90, 121.01, 122, 126.1, 127, 137, 137.1, 190, 212, 215 et 237 et par adjonction des numéros suivants :**

**2. La formule 2 du Règlement est modifiée par insertion de la phrase suivante au haut de la formule :**

Des droits de 5,00 \$ sont exigés pour le dépôt d'une demande d'accès.



**ONTARIO REGULATION 479/97**  
made under the  
**MUNICIPAL FREEDOM OF INFORMATION AND  
PROTECTION OF PRIVACY ACT**

Made: December 10, 1997  
Filed: December 12, 1997

Amending O. Reg. 372/91  
(Institutions)

Note: Ontario Regulation 372/91 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Section 1 of Ontario Regulation 372/91 is amended by adding the following paragraphs:**

2.1	Each board established for transitional purposes under section 5.2 of Ontario Regulation 143/96.
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. . . . .

4.1	Financial advisory board created by section 13 of the <i>City of Toronto Act, 1997</i> .
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. . . . .

13.	Transition team created by section 18 of the <i>City of Toronto Act, 1997</i> .
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**ONTARIO REGULATION 480/97**  
made under the  
**MUNICIPAL FREEDOM OF INFORMATION AND  
PROTECTION OF PRIVACY ACT**

Made: December 10, 1997  
Filed: December 12, 1997

Amending Reg. 823 of R.R.O. 1990  
(General)

Note: Regulation 823 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Form 2 of Regulation 823 of the Revised Regulations of Ontario, 1990 is amended by inserting the following sentence at the top of the form:**

There is a fee of \$5.00 to file an access request.

**RÈGLEMENT DE L'ONTARIO 480/97**  
pris en application de la  
**LOI SUR L'ACCÈS À L'INFORMATION MUNICIPALE ET  
LA PROTECTION DE LA VIE PRIVÉE**

pris le 10 décembre 1997  
déposé le 12 décembre 1997

modifiant le Règl. 823 des R.R.O. de 1990  
(Dispositions générales)

Remarque : Le Règlement 823 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. La formule 2 du Règlement 823 des Règlements refondus de l'Ontario de 1990 est modifiée par insertion de la phrase suivante au haut de la formule :**

Des droits de 5,00 \$ sont exigés pour le dépôt d'une demande d'accès.

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**ONTARIO REGULATION 481/97**  
made under the  
**TORONTO AREA TRANSIT OPERATING**  
**AUTHORITY ACT**

Made: December 10, 1997

Filed: December 12, 1997

**RECOVERY OF COSTS OF THE TORONTO AREA**  
**TRANSIT OPERATION AUTHORITY**

1. (1) For the purpose of subsection 8 (1) of the Act, a billing period shall be one calendar month.

(2) Despite subsection (1), the first billing period shall be January 1 to March 31, 1998.

2. (1) For the purpose of clause 8 (1) (a) of the Act, the amount of the Authority's costs for each billing period in 1998 shall be a percentage of the Authority's total subsidy requirement, as set out in the 1998 Budget for the Toronto Area Transit Operating Authority as follows:

1. For the first billing period, 23.9 per cent.
2. For April, 1998, 8.8 per cent.
3. For May, 1998, 9.5 per cent.
4. For June, 1998, 10.5 per cent.
5. For July, 1998, 7.9 per cent.
6. For August, 1998, 6.7 per cent.
7. For September, 1998, 8.4 per cent.
8. For October, 1998, 9.5 per cent.
9. For November, 1998, 6.1 per cent.

10. For December, 1998, 8.7 per cent.

(2) For the purpose of clause 8 (1) (b) of the Act, the corresponding amount to be recovered from the regional municipalities and the City of Toronto for each billing period is the same as the Authority's costs for that billing period, as set out in subsection (1).

3. For the purpose of subsection 8 (3) of the Act, the amount of the Authority's costs to be recovered from the regional municipalities and the City of Toronto shall be allocated among them in accordance with the following formula:

1. 10.6 per cent from the Regional Municipality of Durham.
2. 9.6 per cent from the Regional Municipality of Halton.
3. 3.1 per cent from the Regional Municipality of Hamilton-Wentworth.
4. 15.6 per cent from the Regional Municipality of Peel.
5. 11.2 per cent from the Regional Municipality of York.
6. 49.9 per cent from the City of Toronto.

4. (1) The Minister shall give the regional municipalities and the City of Toronto the notice required by section 8.1 of the Act with respect to the first billing period by March 1, 1998.

(2) The Minister shall give the regional municipalities and the City of Toronto the notice required by section 8.1 of the Act with respect to subsequent billing periods by the first day of the month before the beginning of each billing period to which the notice relates.

**5. This Regulation comes into force on January 1, 1998.**

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**ONTARIO REGULATION 482/97**  
made under the  
**DAY NURSERIES ACT**

Made: December 10, 1997

Filed: December 12, 1997

Amending Reg. 262 of R.R.O. 1990  
(General)

Note: Since January 1, 1997, Regulation 262 has been amended by Ontario Regulation 112/97. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Section 1 of Regulation 262 of the Revised Regulations of Ontario, 1990 is amended by adding the following definitions:**

"prescribed board" means a prescribed board under section 68.3; ("conseil prescrit")

"provider enhancement grant" means a grant for persons providing private-home day care. ("subvention d'aide aux fournisseurs")

"wage subsidy" means a subsidy for the enhancement of salaries and benefits for employees of day nurseries, private-home day care agencies and resource centres; ("subvention salariale")

**RÈGLEMENT DE L'ONTARIO 482/97**  
pris en application de la  
**LOI SUR LES GARDERIES**

pris le 10 décembre 1997  
déposé le 12 décembre 1997

modifiant le Règl. 262 des R.R.O. de 1990  
(Dispositions générales)

Remarque : Depuis le 1<sup>er</sup> janvier 1997, le Règlement 262 a été modifié par le Règlement de l'Ontario 112/97. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

**1. L'article 1 du Règlement 262 des Règlements refondus de l'Ontario de 1990 est modifié par adjonction des définitions suivantes :**

«conseil prescrit» Conseil prescrit aux termes de l'article 68.3. («prescribed board»)

«subvention d'aide aux fournisseurs» Subvention destinée aux personnes qui fournissent des services de garde d'enfants en résidence privée. («provider enhancement grant»)

«subvention salariale» Subvention visant à améliorer le traitement et les avantages sociaux des employés de garderies, d'agences de garde d'enfants en résidence privée et de centres de documentation. («wage subsidy»)

2. Subsection 51 (2) of the Regulation is amended by striking out “or band” in the second and in the third lines and substituting in each case “band or prescribed board”.

3. The Regulation is amended by adding the following section:

PREScribed SERVICES

66.1 The following services are prescribed as services respecting the provision of which the Minister may enter into agreements for the purposes of subsection 7.2 (1) of the Act:

1. The provision of in-home services with respect to which a municipality enters into an agreement under subsection 5 (1) of the Act.
2. The provision of in-home services under an agreement with the Minister.
3. The provision of resource centres that provide information, public education, consultation, supports and services to individuals, including parents, with respect to the care they give to children.
4. The provision of staff, equipment, supplies or services in a place where private-home day care is provided or in a day nursery with respect to the special needs of handicapped children.
5. The operation of a day nursery by a municipality or prescribed board or the purchase of service from a day nursery by a municipality or prescribed board.
6. The operation of a day nursery by a person other than a municipality or prescribed board.
7. The provision of private-home day care by a municipality or prescribed board or the purchase of service from a private-home day care agency by a municipality or prescribed board.
8. The provision of private-home day care by a person other than a municipality or prescribed board.
9. The provision of funding to recipients under the *General Welfare Assistance Act* who participate in a program under subsection 4.3 (3) of Regulation 537 of the Revised Regulations of Ontario, 1990 for the care of a child less than 12 years of age or of a handicapped child less than 18 years of age, where the child care is provided to enable the recipients to so participate.

4 (1) Subsection 67 (1) of the Regulation is revoked and the following substituted:

(1) Every municipality, band, prescribed board or approved corporation claiming payment under the Act shall annually before a date fixed by a Director in each year prepare and submit to a Director, on a form approved by the Minister, an estimate of the costs and revenue and of the amount the Minister is to pay for the next fiscal year.

(2) Subsection 67 (2) of the Regulation is amended by inserting after “band” in the first line “prescribed board”.

(3) Subsection 67 (4) of the Regulation is amended by inserting after “band” in the second line “prescribed board”.

(4) Subsection 67 (5) of the Regulation is amended by striking out “or band” in the fourth line and substituting “band or prescribed board”.

2. Le paragraphe 51 (2) du Règlement est modifié par substitution de «, d'une bande ou d'un conseil prescrit» à «ou d'une bande» à la troisième ligne et de «, la bande ou le conseil prescrit» à «ou la bande» à la quatrième ligne.

3. Le Règlement est modifié par adjonction de l'article suivant :

SERVICES PRESCRITS

66.1 Les services suivants sont prescrits comme des services à l'égard de la prestation desquels le ministre peut conclure des ententes pour l'application du paragraphe 7.2 (1) de la Loi :

1. La prestation de services à domicile à l'égard desquels une municipalité conclut une entente en vertu du paragraphe 5 (1) de la Loi.
2. La prestation de services à domicile aux termes d'une entente conclue avec le ministre.
3. La fourniture de centres de documentation chargés de fournir des renseignements, des services en matière d'éducation publique, des services de consultation, des appuis et autres services aux particuliers, y compris les pères et mères, en ce qui a trait aux soins qu'ils donnent aux enfants.
4. La dotation en personnel, en équipement ou en fournitures ou la prestation de services à un endroit où des services de garde d'enfants en résidence privée sont fournis ou dans une garderie en ce qui a trait aux besoins particuliers des enfants handicapés.
5. L'exploitation d'une garderie par une municipalité ou un conseil prescrit ou l'achat, par une municipalité ou un conseil prescrit, de services fournis par une garderie.
6. L'exploitation d'une garderie par une personne autre qu'une municipalité ou un conseil prescrit.
7. La prestation, par une municipalité ou un conseil prescrit, de services de garde d'enfants en résidence privée ou l'achat, par une municipalité ou un conseil prescrit, de services fournis par une agence de garde d'enfants en résidence privée.
8. La prestation, par une personne autre qu'une municipalité ou un conseil prescrit, de services de garde d'enfants en résidence privée.
9. La fourniture de fonds aux bénéficiaires visés par la *Loi sur l'aide sociale générale* qui participent à un programme prévu au paragraphe 4.3 (3) du Règlement 537 des Règlements refondus de l'Ontario de 1990 relativement aux soins à fournir aux enfants de moins de 12 ans ou aux enfants handicapés de moins de 18 ans, lorsque les soins sont fournis pour permettre aux bénéficiaires de participer à un tel programme.

4. (1) Le paragraphe 67 (1) du Règlement est abrogé et remplacé par ce qui suit :

(1) Toute municipalité, bande ou personne morale agréée ou tout conseil prescrit qui demande un paiement en vertu de la Loi établit et présente annuellement à un directeur, avant une date fixée chaque année par un directeur et selon la formule approuvée par le ministre, des prévisions relatives aux frais et aux revenus ainsi qu'au montant payable par le ministre pour l'exercice suivant.

(2) Le paragraphe 67 (2) du Règlement est modifié par insertion de «, le conseil prescrit» après «la bande» à la deuxième ligne.

(3) Le paragraphe 67 (4) du Règlement est modifié par insertion de «, à un conseil prescrit» après «à une bande» à la deuxième ligne.

(4) Le paragraphe 67 (5) du Règlement est modifié par substitution de «, de la bande ou du conseil prescrit» à «ou de la bande» à la quatrième ligne.



(5) Subsection 67 (6) of the Regulation is amended by inserting after "band" in the second line and in the third line "prescribed board".

(6) Subsection 67 (7) of the Regulation is revoked and the following substituted:

(7) The money paid under this section to a municipality, band, prescribed board or approved corporation shall be expended by it in accordance with the estimate, as approved by the Director.

(7) Subsections 67 (8) and (9) of the Regulation are revoked.

5. (1) Subsections 68 (1) and (1.1) of the Regulation are revoked.

(2) Subsection 68 (3) of the Regulation is amended by striking out "municipality" in the first and third lines of clause (a) and by striking out "municipality or" in the first line of clause (b).

6. The Regulation is amended by adding the following sections:

68.1 (1) The amount payable to a municipality or prescribed board under an agreement with the municipality or prescribed board under section 7.2 of the Act with respect to the services prescribed under paragraph 9 of section 66.1 of this Regulation is 80 per cent of the total cost to be paid for those services, as set out in the agreement.

(2) The amount payable to a municipality or prescribed board under an agreement with the municipality or prescribed board under section 7.2 of the Act with respect to the services prescribed under paragraph 1, 3 or 4 of section 66.1 of this Regulation is 100 per cent of the total cost to be paid for those services, as set out in the agreement.

(3) The amount payable to a municipality or prescribed board under an agreement with the municipality or prescribed board under section 7.2 of the Act with respect to the services prescribed under paragraph 5 or 7 of section 66.1 of this Regulation is,

- (a) if the agreement or part of the agreement is with respect to children whose parents are persons in need and those children are in attendance at day nurseries or private-home day care, 80 per cent of the operating costs of those day nursery services or that private-home day care for those children or, if the fees payable by their parents exceed 20 per cent of those operating costs, the amount necessary to ensure that the sum of the amount payable to the municipality or prescribed board and the fees payable by their parents equals those operating costs;
- (b) if the agreement or part of the agreement is with respect to handicapped children in attendance at day nurseries or private-home day care, 80 per cent of the operating costs of providing those day nursery services or that private-home day care for those handicapped children or, if the fees payable by their parents exceed 20 per cent of those operating costs, the amount necessary to ensure that the sum of the amount payable to the municipality or prescribed board and the fees payable by their parents equals those operating costs;
- (c) if the agreement or part of the agreement is with respect to wage subsidies for day nurseries or private-home day care agencies operated by the municipality or prescribed board, 100 per cent of the costs of providing wage subsidies;

(5) Le paragraphe 67 (6) du Règlement est modifié par insertion de «, au conseil prescrit» après «à la bande» à la deuxième ligne et de «, le conseil prescrit» après «la bande» à la troisième ligne.

(6) Le paragraphe 67 (7) du Règlement est abrogé et remplacé par ce qui suit :

(7) La municipalité, la bande, le conseil prescrit ou la personne morale agréée dépense les sommes qui lui sont versées aux termes du présent article conformément aux prévisions qu'approuve le directeur.

(7) Les paragraphes 67 (8) et (9) du Règlement sont abrogés.

5. (1) Les paragraphes 68 (1) et (1.1) du Règlement sont abrogés.

(2) Le paragraphe 68 (3) du Règlement est modifié par suppression de «à une municipalité,» et de «la municipalité,» aux première ligne et quatrième ligne respectivement de l'alinéa a) et de «à une municipalité ou» à la première ligne de l'alinéa b).

6. Le Règlement est modifié par adjonction des articles suivants :

68.1 (1) Le montant payable à une municipalité ou à un conseil prescrit aux termes d'une entente conclue avec l'un ou l'autre en vertu de l'article 7.2 de la Loi relativement aux services prescrits aux termes de la disposition 9 de l'article 66.1 du présent règlement équivaut à 80 pour cent de la totalité des frais à engager pour ces services, comme l'énonce l'entente.

(2) Le montant payable à une municipalité ou à un conseil prescrit aux termes d'une entente conclue avec l'un ou l'autre en vertu de l'article 7.2 de la Loi relativement aux services prescrits aux termes de la disposition 1, 3 ou 4 de l'article 66.1 du présent règlement équivaut à 100 pour cent de la totalité des frais à engager pour ces services, comme l'énonce l'entente.

(3) Le montant payable à une municipalité ou à un conseil prescrit aux termes d'une entente conclue avec l'un ou l'autre en vertu de l'article 7.2 de la Loi relativement aux services prescrits aux termes de la disposition 5 ou 7 de l'article 66.1 du présent règlement équivaut à ce qui suit :

- a) si l'entente ou une partie de celle-ci porte sur des enfants dont le père et la mère sont des personnes dans le besoin et que ces enfants fréquentent des garderies ou reçoivent des services de garde d'enfants en résidence privée, 80 pour cent des frais d'exploitation engagés pour fournir ces services de garderie ou de garde d'enfants en résidence privée à ces enfants ou, si les droits d'inscription payables par leurs père et mère dépassent 20 pour cent de ces frais d'exploitation, le montant nécessaire pour que la somme du montant payable à la municipalité ou au conseil prescrit et des droits d'inscription payables par leurs père et mère soit égale au montant de ces frais d'exploitation;
- b) si l'entente ou une partie de celle-ci porte sur des enfants handicapés qui fréquentent des garderies ou reçoivent des services de garde d'enfants en résidence privée, 80 pour cent des frais d'exploitation engagés pour fournir ces services de garderie ou de garde d'enfants en résidence privée à ces enfants ou, si les droits d'inscription payables par leurs père et mère dépassent 20 pour cent de ces frais d'exploitation, le montant nécessaire pour que la somme du montant payable à la municipalité ou au conseil prescrit et des droits d'inscription payables par leurs père et mère soit égale au montant de ces frais d'exploitation;
- c) si l'entente ou une partie de celle-ci porte sur les subventions salariales fournies aux garderies ou aux agences de garde d'enfants en résidence privée exploitées par la municipalité ou le conseil prescrit, 100 pour cent des frais engagés pour fournir les subventions salariales;

(d) if the agreement or part of the agreement is with respect to provider enhancement grants for private-home day care agencies operated by the municipality or prescribed board, 100 per cent of the costs of providing provider enhancement grants; and

(e) 80 per cent of the costs incurred by the municipality or prescribed board under the agreement with respect to determining whether parents are persons in need.

(4) For the purposes of clauses (3) (a) and (b), "operating cost" does not include wage subsidies or provider enhancement grants.

**68.2** (1) In this section,

"approved municipality" means a municipality that has, with the approval of the Minister, appointed a welfare administrator under the *General Welfare Assistance Act*.

(2) Every approved municipality and every prescribed board shall pay to Ontario 20 per cent of the total cost to be paid for services, as set out in an agreement under section 7.2 of the Act with a municipality, a prescribed board or another person, if those services are prescribed under paragraph 1, 2 or 4 of section 66.1 of this Regulation and are provided in the area with respect to which the approved municipality or prescribed board provides assistance under the *General Welfare Assistance Act*.

(3) Every approved municipality and every prescribed board shall pay to Ontario 20 per cent of the total cost to be paid for services other than wage subsidies, as set out in an agreement under section 7.2 of the Act with a municipality, a prescribed board or another person, if those services are prescribed under paragraph 3 of section 66.1 of this Regulation and are provided in the area with respect to which the approved municipality or prescribed board provides assistance under the *General Welfare Assistance Act*.

(4) Every approved municipality and every prescribed board shall pay to Ontario 20 per cent of the total cost to be paid for wage subsidies and for provider enhancement grants, as set out in an agreement under section 7.2 of the Act with a municipality, a prescribed board or another person, if the wage subsidies or provider enhancement grants are part of a service prescribed under paragraph 3, 5, 6, 7 or 8 of section 66.1 of this Regulation and are provided in the area with respect to which the approved municipality or prescribed board provides assistance under the *General Welfare Assistance Act*.

**68.3** Every district welfare administration board under the *District Welfare Administration Boards Act* is prescribed as a board for the purposes of this Regulation.

**7.** (1) Subsection 81 (1) of the Regulation is amended by inserting after "band" in the first line "prescribed board".

(2) Subsection 81 (2) of the Regulation is amended by inserting after "band" in the second line "prescribed board".

(3) Subsection 81 (4) of the Regulation is amended by inserting after "band" in the second line "prescribed board".

(4) Subsection 81 (5) of the Regulation is amended by inserting after "band" in the second line "prescribed board".

**8.** This Regulation comes into force on January 1, 1998.

d) si l'entente ou une partie de celle-ci porte sur les subventions d'aide aux fournisseurs fournies aux agences de garde d'enfants en résidence privée exploitées par la municipalité ou le conseil prescrit, 100 pour cent des frais engagés pour fournir les subventions d'aide aux fournisseurs;

e) 80 pour cent des frais engagés par la municipalité ou le conseil prescrit aux termes de l'entente pour déterminer si les père et mère sont des personnes dans le besoin.

(4) Pour l'application des alinéas (3) a) et b), «frais d'exploitation» ne s'entend pas des subventions salariales ni des subventions d'aide aux fournisseurs.

**68.2** (1) La définition qui suit s'applique au présent article.

«municipalité approuvée» Municipalité qui, avec l'approbation du ministre, a nommé un administrateur de l'aide sociale aux termes de la *Loi sur l'aide sociale générale*.

(2) Chaque municipalité approuvée et chaque conseil prescrit versent à l'Ontario 20 pour cent de la totalité des frais à engager au titre des services qui sont énoncés dans une entente conclue en vertu de l'article 7.2 de la Loi avec une municipalité, un conseil prescrit ou une autre personne, lorsque ces services sont prescrits aux termes de la disposition 1, 2 ou 4 de l'article 66.1 du présent règlement et sont fournis dans la zone à l'égard de laquelle la municipalité approuvée ou le conseil prescrit fournit une aide aux termes de la *Loi sur l'aide sociale générale*.

(3) Chaque municipalité approuvée et chaque conseil prescrit versent à l'Ontario 20 pour cent de la totalité des frais à engager au titre des services, autres que les subventions salariales, qui sont énoncés dans une entente conclue en vertu de l'article 7.2 de la Loi avec une municipalité, un conseil prescrit ou une autre personne, lorsque ces services sont prescrits aux termes de la disposition 3 de l'article 66.1 du présent règlement et sont fournis dans la zone à l'égard de laquelle la municipalité approuvée ou le conseil prescrit fournit une aide aux termes de la *Loi sur l'aide sociale générale*.

(4) Chaque municipalité approuvée et chaque conseil prescrit versent à l'Ontario 20 pour cent de la totalité des frais à engager au titre des subventions salariales et des subventions d'aide aux fournisseurs qui sont énoncées dans une entente conclue en vertu de l'article 7.2 de la Loi avec une municipalité, un conseil prescrit ou une autre personne, lorsque celles-ci font partie d'un service prescrit aux termes de la disposition 3, 5, 6, 7 ou 8 de l'article 66.1 du présent règlement et sont fournies dans la zone à l'égard de laquelle la municipalité approuvée ou le conseil prescrit fournit une aide aux termes de la *Loi sur l'aide sociale générale*.

**68.3** Chaque conseil d'administration de district de l'aide sociale créé en vertu de la *Loi sur les conseils d'administration de district de l'aide sociale* est prescrit comme conseil pour l'application du présent règlement.

**7.** (1) Le paragraphe 81 (1) du Règlement est modifié par substitution de «et aucun conseil prescrit ne doivent» à «ne doit» aux première et deuxième lignes.

(2) Le paragraphe 81 (2) du Règlement est modifié par insertion de «, un conseil prescrit» après «bande» à la deuxième ligne.

(3) Le paragraphe 81 (4) du Règlement est modifié par insertion de «, un conseil prescrit» après «bande» à la première ligne.

(4) Le paragraphe 81 (5) du Règlement est modifié par insertion de «, un conseil prescrit» après «bande» à la deuxième ligne.

**8.** Le présent règlement entre en vigueur le 1<sup>er</sup> janvier 1998.



**ONTARIO REGULATION 483/97**  
made under the  
**CHILD AND FAMILY SERVICES ACT**

Made: December 10, 1997

Filed: December 12, 1997

Amending Reg. 70 of R.R.O. 1990  
(General)

Note: Regulation 70 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. (1) Subsection 18 (2) of Regulation 70 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

(2) Every society shall before a date to be fixed each year by the Minister prepare in a form provided by the Minister and file with the Minister an estimate of its net expenditures for the year next following.

**(2) Subsections 18 (3) and (4) of the Regulation are revoked.**

**(3) Subsection 18 (5) of the Regulation is revoked and the following substituted:**

(5) The Minister, at any time after the date fixed by the Minister has expired and the society has not filed an estimate, may determine the amount of the estimate and cause the estimate to be filed with the society.

**(4) Subsections 18 (7) to (12) of the Regulation are revoked.**

**2. (1) Subsection 19 (1) of the Regulation is amended by striking out "and approved by the council of each municipality" in the first and second lines.**

(2) Subsection 19 (2) of the Regulation is amended by striking out "and to the council of each municipality in the area in which the society has jurisdiction or to the District Child Welfare Budget Board, as the case may be" at the end.

**3. (1) Subsection 20 (1) of the Regulation is revoked.**

(2) Subsection 20 (2) of the Regulation is amended by striking out "the council of a municipality or a District Child Welfare Budget Board" in the first and second lines.

**(3) Subsection 20 (3) of the Regulation is revoked.**

**4. (1) Subsection 21 (1) of the Regulation is amended by adding "and" at the end of clause (a), by striking out "and" at the end of clause (b) and by striking out clause (c).**

**(2) Subsection 21 (2) of the Regulation is revoked.**

**(3) Subsection 21 (3) of the Regulation is revoked and the following substituted:**

(3) The Minister shall, after receiving a request to refer a matter to a child welfare review committee, forthwith appoint the member referred to in clause (1) (a) and cause notice to be given to the Ontario Association of Children's Aid Societies to appoint, within 10 days of the notice having been given, the member referred to in clause (1) (b) and to inform the Minister forthwith of the name of the member so appointed.

**(4) Subsection 21 (5) of the Regulation is revoked and the following substituted:**

(5) If the Ontario Association of Children's Aid Societies fails to appoint a member within the time prescribed, the Minister shall, in the place of the Association, forthwith appoint the member to the committee.

**(5) Subsection 21 (6) of the Regulation is amended by striking out "all" in the second line.**

**(6) Subsection 21 (7) of the Regulation is amended by striking out "the municipality or the District Child Welfare Budget Board" in the second and third lines.**

(7) Subsection 21 (11) of the Regulation is amended by inserting after "review" in the third line "or" and by striking out "or determine the portion of the estimate referable to a municipality" in the fourth and fifth lines.

**5. Section 22 of the Regulation is revoked and the following substituted:**

22. For the purpose of subsection 19 (2) of the Act, the amount that the Minister shall pay to a society shall be equal to 100 per cent of the approved estimate of net expenditures.

**6. (1) Subsections 23 (1), (2), (3) and (4) of the Regulation are revoked and the following substituted:**

(1) After the estimate of net expenditures of a society for a year is finally approved by the Minister, the society may at any time within one year after the end of the society's fiscal year file with the Minister,

(a) an amendment to the approved estimate of the society not included in the original approved estimate for the year; or

(b) a supplementary estimate of net expenditures of the society not included in the original approved estimate for the year.

**(2) Subsection 23 (5) of the Regulation is amended by striking out "and approved by the council of each municipality" in the third and fourth lines.**

**(3) Subsection 23 (6) of the Regulation is amended by striking out "and to the council of each municipality in the area in which the society has jurisdiction" at the end.**

**(4) Subsection 23 (7) of the Regulation is revoked and the following substituted:**

(7) A society that does not agree with the Minister's intention under subsection (6) may, before the Minister's refusal or approval is given, request the Minister to refer the matter to a child welfare review committee.

**(5) Subsection 23 (8) of the Regulation is amended by striking out "(4) or" in the second line.**

**(6) Subsection 23 (9) of the Regulation is revoked.**

(7) Subsection 23 (10) of the Regulation is amended by striking out "and by a municipality" in the third and fourth lines and by striking out "subsections 19 (2) and (3)" in the last line and substituting "subsection 19 (2)".

**(8) Subsection 23 (11) of the Regulation is revoked.**

**7. Sections 24 and 25 of the Regulation are revoked.**

**8. Despite the amendments to the Regulation set out in sections 1 to 7, sections 18 to 25 of the Regulation, as they read on**



December 31, 1997, apply for the purpose of determining the amount payable to societies under section 19 of the Act with respect to any of their fiscal years ending before January 1, 1998.

9. This Regulation comes into force on January 1, 1998.

52/97

**ONTARIO REGULATION 484/97**  
made under the  
**DISTRICT WELFARE ADMINISTRATION BOARDS ACT**

Made: December 10, 1997  
Filed: December 12, 1997

Amending Reg. 273 of R.R.O. 1990  
(Application for Grant under Section 10 of the Act)

Note: Regulation 273 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

1. Section 2 of Regulation 273 of the Revised Regulations of Ontario, 1990 is amended by striking out "and" at the end of clause (f) and by adding the following clauses:

- (f.1) the services set out in section 66.1 of Regulation 262 of the Revised Regulations of Ontario, 1990, made under the *Day Nurseries Act*;
- (f.2) expenditures with respect to provincial social housing costs under the *Social Housing Funding Act, 1997*; and

2. This Regulation comes into force on January 1, 1998.

52/97

**ONTARIO REGULATION 485/97**  
made under the  
**FAMILY BENEFITS ACT**

Made: December 10, 1997  
Filed: December 12, 1997

Amending Reg. 366 of R.R.O. 1990  
(General)

Note: Regulation 366 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

1. Clause 5 (c) of Regulation 366 of the Revised Regulations of Ontario, 1990 is amended by adding "or" at the end of subclause (i), by striking out "or" at the end of subclause (ii) and by striking out subclause (iii).

2. (1) Clause 12 (6.1) (a) of the Regulation is amended by adding "per person" at the end.

(2) The definition of "institution" in subsection 12 (6.3) of the Regulation is amended by striking out "or the *General Welfare Assistance Act*" at the end of clause (b) and by adding the following clause:

(g) an interval or transition home for abused women.

3. The Regulation is amended by adding the following heading and section at the end:

**COST SHARING FOR MUNICIPALITIES AND  
DISTRICT WELFARE ADMINISTRATION BOARDS**

42. (1) In this section,

"assistance" means,

- (a) an amount provided under subsection 14 (2) of the Act, or
- (b) a benefit provided under the Act other than,
  - (i) an amount paid to a recipient eligible for an allowance under subsection 2 (6),
  - (ii) an amount paid under subsection 12 (12), or
  - (iii) an amount paid to a person under section 32 or 38;

"cost of administration" means the administrative costs incurred or payable by Ontario with respect to the provision of assistance under the Act;

"delivery agent" means,

- (a) a municipality that has, with the approval of the Minister, appointed a welfare administrator under the *General Welfare Assistance Act*, or
- (b) a district welfare administration board under the *District Welfare Administration Boards Act*;

"geographic area" means,

- (a) in the Greater Toronto Area, the Greater Toronto Area, and
- (b) otherwise, the area in which a delivery agent is responsible for delivering assistance under the *General Welfare Assistance Act*;

"Greater Toronto Area" means the area that lies within the jurisdiction of the Regional Municipality of Durham, the Regional Municipality of Halton, the Regional Municipality of Peel, the City of Toronto and the Regional Municipality of York.

(2) The amount payable to Ontario by a delivery agent that is not in the Greater Toronto Area shall be equal to the sum of,

- (a) 20 per cent of the cost of assistance provided by or on behalf of Ontario to persons who reside within the delivery agent's geographic area; and
  - (b) if the delivery agent employs a full-time welfare administrator, 50 per cent of the reasonable cost of administration attributable to the delivery agent's geographic area.
- (3) The amount payable to Ontario by a delivery agent within the Greater Toronto Area shall be calculated as follows:

1. Determine 20 per cent of the cost of assistance provided by or on behalf of Ontario to persons who reside within the Greater Toronto Area.
2. Add to that amount 50 per cent of the reasonable cost of administration attributable to the Greater Toronto Area.
3. Apportion the amount determined under paragraph 2 among the delivery agents by multiplying that amount by the percentage

attributable to each delivery agent, as set out in the following Table:

TABLE

DELIVERY AGENT	PERCENTAGE OF TOTAL
Regional Municipality of Durham	7.3067 per cent
Regional Municipality of Halton	7.4182 per cent
Regional Municipality of Peel	18.5113 per cent
City of Toronto	52.0253 per cent
Regional Municipality of York	14.7385 per cent

**4. This Regulation comes into force on January 1, 1998.**

52/97

**ONTARIO REGULATION 486/97**  
made under the  
**GENERAL WELFARE ASSISTANCE ACT**

Made: December 10, 1997  
Filed: December 12, 1997

Revoking Reg. 535 of R.R.O. 1990  
(Civil Legal Aid)

**1. Regulation 535 of the Revised Regulations of Ontario, 1990 is revoked.**

**2. This Regulation comes into force on January 1, 1998.**

52/97

**ONTARIO REGULATION 487/97**  
made under the  
**GENERAL WELFARE ASSISTANCE ACT**

Made: December 10, 1997  
Filed: December 12, 1997

Amending Reg. 537 of R.R.O. 1997  
(General)

Note: Regulation 537 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. (1) The definition of "hostel" in subsection 1 (1) of Regulation 537 of the Revised Regulations of Ontario, 1990 is revoked and the following substituted:**

"emergency hostel services" means the provision of board, lodging and personal needs to homeless persons on a short term, infrequent basis, but does not include services provided to residents of interval or transition homes for abused women.

**(2) The definition of "work activity project" in subsection 1 (1) of the Regulation is revoked.**

**(3) Subsection 1 (5) of the Regulation is revoked and the following substituted:**

(5) Subject to subsections (5.1) and (6), an applicant or recipient shall be deemed for the purposes of the Act and this Regulation to reside or to have resided in the municipality, the territory without municipal organization or on the reserve, as the case may be, where the applicant is or was ordinarily resident at the date of the application, so long as he or she remains in the municipality, territory or reserve.

(5.1) For the purposes of subsection (5), an applicant or recipient who is or was a resident in a nursing home or a hospital at the date of the application shall be deemed to reside or have resided in the municipality, territory without municipal organization or on the reserve, as the case may be, where the applicant is or was ordinarily resident other than in an institution, immediately before admission to the nursing home or hospital.

**(4) Section 1 of the Regulation is amended by adding the following subsection:**

(7) Emergency hostel services may be provided by a municipality, a District Welfare Administration Board under the *District Welfare Administration Boards Act* or an approved band or by a person or organization under an agreement with one of them.

**2. Section 8 of the Regulation is revoked and the following substituted:**

8. The classes of assistance are general assistance, special assistance and supplementary aid.

**3. (1) Subsection 9 (1) of the Regulation is revoked and the following substituted:**

(1) Except as otherwise provided in this section, an application shall be in Form 1 of this Regulation or Form 1 of Regulation 366 of the Revised Regulations of Ontario, 1990 made under the *Family Benefits Act*.

**(2) Subclause 9 (6) (a) (i) of the Regulation is revoked and the following substituted:**

(i) with respect to emergency hostel services,

**(3) Subsection 9 (6) of the Regulation is amended by adding "or" at the end of clause (c) and by striking out clause (d).**

**4. (1) Clause 10 (1) (a) of the Regulation is revoked and the following substituted:**

(a) complete a monthly application for payment of a subsidy by Ontario in a form approved by the Director for each class of assistance paid in the month and forward it to the Minister before the 20th day of the month next following;

(a.1) complete an annual application for payment of a subsidy by Ontario in a form approved by the Director with respect to the cost of administration as defined in section 24 and the cost of staff training in each year;

(a.2) complete a quarterly report with respect to the costs referred to in clause (a.1) in a form approved by the Director, if requested to do so by the Director;

**(2) Subsection 10 (2) of the Regulation is revoked and the following substituted:**

(2) The Minister may,



- (a) require the welfare administrator to provide the Minister with whatever information as to the contents of the information submitted under clause (1) (a), (a.1) or (a.2) that the Minister considers necessary; and
- (b) require an inspection and audit of the books and accounts of the municipality or approved band relating to the information submitted under subsection (1).

**(3) Subsection 10 (5) of the Regulation is revoked.**

**5. (1) Clause 12 (1) (b) of the Regulation is revoked and the following substituted:**

- (b) not a resident in an institution other than a nursing home or an interval or transition home for abused women; and

**(2) Subsection 12 (7) of the Regulation is revoked and the following substituted:**

(7) Subject to subsection (8), Ontario shall pay by way of reimbursement to the council of an approved band that pays general assistance to a person eligible for it under subsection (1),

- (a) subject to clause (b), 80 per cent of the amount of general assistance paid to or on behalf of the person; and
- (b) if the person is a head of a family whose spouse is absent, 80 per cent of the amount of general assistance paid to or on behalf of the person as a result of the application of clauses 13 (5) (b) and (b.1) and subsection 16 (8) and 100 per cent of the amount of any other general assistance paid to or on behalf of the person.

**(3) Subsection 12 (9) of the Regulation is revoked.**

**6. Clauses 13 (5) (a) and (b) of the Regulation are revoked and the following substituted:**

- (a) who is resident in a nursing home or in an interval or transition home for abused women that is not maintained or operated by or on behalf of the council of an approved band, is a personal needs allowance of \$112 per month for each applicant, recipient or dependant;
- (b) who is a recipient of emergency hostel services, is the cost approved by the Director of providing the applicant or recipient with board, lodging and personal needs;
- (b.1) who is resident in an interval or transition home for abused women that is maintained or operated by or on behalf of the council of an approved band, is the cost approved by the Director of providing the applicant or recipient with board or lodging in the home plus a personal needs allowance of \$112 per month for each applicant, recipient or dependant; and

**7. Paragraph 31 of subsection 15 (2) of the Regulation is revoked.**

**8. Subsections 18 (6) and (7) of the Regulation are revoked and the following substituted:**

(6) The Province of Ontario shall pay by way of reimbursement to the council of the approved band 50 per cent of the amounts paid for special assistance.

(7) Despite subsection (6), the Province of Ontario shall pay by way of reimbursement to the council of the approved band 80 per cent of any amount approved by the Director and paid as special assistance under clause (3) (a).

**9. Section 19 of the Regulation is revoked and the following substituted:**

19. Subject to subsection 19.1 (3), where an approved band pays supplementary aid for the purpose of assisting a person to meet the cost of energy for heat or shelter, or to provide for any other special service, item or payment authorized by the Director, Ontario shall pay by way of reimbursement to the council of the approved band 80 per cent of the monthly amounts so paid.

**10. Subsection 19.1 (3) of the Regulation is amended by deleting “municipality or” in the first line.**

**11. Section 20 of the Regulation is revoked.**

**12. Section 22 of the Regulation is amended by striking out “section 25” in the third line and substituting “section 24”.**

**13. Section 23 of the Regulation and the heading that precedes it are revoked.**

**14. Section 24 of the Regulation is revoked and the following substituted:**

24. (1) In this section and section 24.1,

“cost of administration” means the administrative costs incurred with respect to the provision of assistance under the Act, but does not include the cost of staff training.

(2) The subsidy payable by Ontario to an approved band that employs a full time welfare administrator shall be equal to 50 per cent of the band’s reasonable cost of administration as approved by the Director.

(3) The subsidy payable by Ontario to an approved band in respect of the cost of staff training shall be equal to 80 per cent of the band’s reasonable cost of staff training as approved by the Director.

(4) The subsidy payable by Ontario to an approved band with respect to the cost of maintenance ordered by the board of review under subsection 11 (4) of the Act shall be equal to,

- (a) subject to clause (b), 80 percent of that cost; and
- (b) if the person to whom the maintenance is paid is a head of a family whose spouse is absent, 80 per cent of the amount of general assistance paid to or on behalf of the person as a result of the application of clauses 13 (5) (b) and (b.1) and subsection 16 (8) and 100 per cent of any other amount paid to or on behalf of the person.

**COST SHARING FOR MUNICIPALITIES AND DISTRICT WELFARE ADMINISTRATION BOARDS**

24.1 (1) In this section and section 24.2,

“assistance costs” means the sum of,

- (a) the cost of any class of assistance provided under the Act, and
- (b) the cost of maintenance ordered by the board of review under subsection 11 (4) of the Act;

“delivery agent” means,



(a) a municipality that has, with the approval of the Minister, appointed a welfare administrator, or

(b) a district welfare administration board under the *District Welfare Administration Boards Act*;

"Greater Toronto Area" means the geographic area which lies within the jurisdiction of the Regional Municipality of Durham, the Regional Municipality of Halton, the Regional Municipality of Peel, the City of Toronto and the Regional Municipality of York.

(2) The subsidy payable to a delivery agent that is not in the Greater Toronto Area shall be equal to the sum of,

- (a) 80 per cent of the assistance costs incurred by the delivery agent;
- (b) if the delivery agent employs a full-time welfare administrator, 50 per cent of the delivery agent's reasonable cost of administration, as approved by the Director; and
- (c) 50 per cent of the delivery agent's reasonable cost of staff training, as approved by the Director.

(3) The subsidy payable by Ontario to a delivery agent in the Greater Toronto Area shall be calculated as follows:

1. For each delivery agent, determine the total of the assistance costs incurred by that delivery agent and the reasonable cost of administration and staff training, as approved by the Director and incurred by that delivery agent.
2. For each delivery agent, determine the sum of 20 per cent of the assistance costs incurred by that delivery agent and 50 per cent of the reasonable cost of administration and staff training, as approved by the Director and incurred by that delivery agent.
3. For the Greater Toronto Area, calculate the sum of the amounts determined under paragraph 2.
4. Apportion among the delivery agents their share of the amount determined under paragraph 3 by multiplying that amount by the percentage of the total attributable to each delivery agent, as set out in the Table to this section.
5. For each delivery agent, subtract from the amount determined under paragraph 1 the amount determined under paragraph 4.

TABLE

DELIVERY AGENT	PERCENTAGE OF TOTAL
Regional Municipality of Durham	7.3067 per cent
Regional Municipality of Halton	7.4182 per cent
Regional Municipality of Peel	18.5113 per cent
City of Toronto	52.0253 per cent
Regional Municipality of York	14.7385 per cent

**24.2** The Minister may deduct from a subsidy payable by Ontario to a delivery agent under section 24.1 an amount equal to the sum of,

- (a) the amount the delivery agent is required to pay to Ontario under Regulation 366 of the Revised Regulations of Ontario, 1990, made under the *Family Benefits Act*; and

(b) the amount the delivery agent is required to pay to Ontario under Regulation 262 of the Revised Regulations of Ontario, 1990, made under the *Day Nurseries Act*.

**15.** Section 27 of the Regulation is amended by striking out "Despite subsection 12 (7), subsection 18 (6), section 19 and subsection 24 (6)" at the beginning.

**16.** Subsection 28 (2) of the Regulation is amended by striking out "or 23" in the fourth line and substituting "24 or 24.1 and 24.2".

**17.** Subsection 30 (4) of the Regulation is amended by striking out "For the purposes of subsection 12 (7)" at the beginning.

**18.** The Regulation is amended by adding the following section:

**32.** Subsection 15.1 (1) of the Act does not apply with respect to,

- (a) the *Workplace Safety and Insurance Act, 1997*; or
- (b) the *Occupational Health and Safety Act*, except with respect to sections 8 and 9 of the Act.

**19.** Forms 7, 8 and 9 of the Regulation are revoked.

**20.** This Regulation comes into force on January 1, 1998.

52/97

**ONTARIO REGULATION 488/97**  
made under the  
**SOCIAL HOUSING FUNDING ACT, 1997**

Made: December 10, 1997  
Filed: December 12, 1997

**GENERAL**

**1.** In this Regulation,

"Greater Toronto Area" means the geographic area which lies within the jurisdiction of the Regional Municipality of Durham, the Regional Municipality of Halton, the Regional Municipality of Peel, the City of Toronto and the Regional Municipality of York;

"separated municipality" means a municipality that is situated within a county but does not form part of the county for municipal purposes;

"territorial district" means a territorial district under the *Territorial Division Act* other than the Territorial District of Muskoka.

**2.** The following entities are prescribed as boards for the purposes of subsection 4 (4) of the Act:

1. Algoma District Welfare Administration Board.
2. Cochrane District Welfare Administration Board.
3. Nipissing District Welfare Administration Board.
4. Parry Sound District Welfare Administration Board.
5. Rainy River District Welfare Administration Board.
6. Sudbury District Welfare Administration Board.

**3.** (1) Subject to subsection (2), a billing period is a calendar month.

(2) The first billing period is January, February and March, 1998.

(3) A notice under subsection 5 (1) of the Act shall be given to an entity no later than 30 days after the last day of the billing period to which it relates.

4. (1) Provincial social housing costs that form part of the cost of funding and administering the Ontario Housing Corporation and relate to agreements with landlords of housing not owned by the Ontario Housing Corporation with respect to rent supplements shall be deemed to have been incurred in the billing period preceding the month in which they are paid by the Minister.

(2) Despite subsection (1), provincial social housing costs described in subsection (1) that are paid by the Minister in January, February, March or April of 1998 shall be deemed to be incurred in the first billing period.

(3) Provincial social housing costs that form part of the cost of funding and administering the Ontario Housing Corporation, other than the costs described in subsection (1), shall be deemed,

- (a) to be incurred in the billing period in which they are paid by the Minister, if they are paid after the 10th day of the billing period; and
- (b) to have been incurred in the billing period preceding the one in which they are paid by the Minister, if they are paid before the 11th day of the billing period.

(4) Despite subsection (3), provincial social housing costs described in subsection (3) that are paid by the Minister,

- (a) before January 11, 1998 shall be deemed to have been incurred before January 1, 1998; and
- (b) after January 10, 1998 and before April 11, 1998 shall be deemed to be incurred in the first billing period.

(5) Provincial social housing costs with respect to funding and administering programs described in clause 2 (1) (b) of the Act shall be deemed to have been incurred in the billing period preceding the month in which a payment is first made by the Minister with respect to those costs.

(6) Despite subsection (5), provincial social housing costs described in subsection (5) that are paid by the Minister,

- (a) in January, 1998 shall be deemed to have been incurred before January 1, 1998; and
- (b) in February, March or April of 1998 shall be deemed to be incurred in the first billing period.

5. (1) Provincial social housing costs incurred or to be incurred with respect to housing located in territory without municipal organization are prescribed as provincial social housing costs that are not to be recovered for the purposes of clause 4 (1) (b) of the Act.

(2) The costs incurred or to be incurred in administering programs described in clause 2 (1) (b) of the Act are prescribed as provincial social housing costs that are not to be recovered for the purposes of clause 4 (1) (b) of the Act.

6. (1) Subject to subsections (2) to (5) and 7 (5), the provincial social housing costs to be recovered from an entity are the costs incurred or to be incurred in a billing period with respect to housing within the geographic area over which the entity has jurisdiction.

(2) The provincial social housing costs to be recovered under the Act for the Greater Toronto Area shall be allocated among the Regional Municipality of Durham, the Regional Municipality of Halton, the

Regional Municipality of Peel, the City of Toronto and the Regional Municipality of York by multiplying for each entity set out in Column 1 of Table 1 the total provincial social housing costs incurred or to be incurred in a billing period with respect to housing within the Greater Toronto Area by the percentage set out opposite to that entity in Column 2.

(3) The provincial social housing costs to be recovered under the Act in a territorial district in which no district welfare administration board has been established under the *District Welfare Administration Boards Act* shall be allocated among the entities within the territorial district by multiplying for each entity set out in Column 1 of Tables 2, 3, 4 and 5 the total provincial social housing costs incurred or to be incurred in a billing period with respect to housing within the territorial district in which it is located by the percentage set out opposite to that entity in Column 2.

(4) If a territorial district includes a district welfare administration board and a city to which the *District Welfare Administration Boards Act* does not apply, the provincial social housing costs to be recovered in the territorial district from the district welfare administration board and the city shall be allocated between the board and the city by multiplying for each entity set out in Column 1 of Tables 6, 7 and 8 the total provincial social housing costs incurred or to be incurred in the billing period with respect to housing within the territorial district by the percentage set out opposite to that entity in Column 2.

(5) Subject to subsection 7 (5), the provincial social housing costs to be recovered in a county with one or more separated municipalities shall be allocated among the county and those municipalities by multiplying for each entity set out in Column 1 of Tables 9 to 23 the total provincial social housing costs incurred or to be incurred in the billing period with respect to housing within the county by the percentage set out opposite to that entity in Column 2.

7. (1) This section applies with respect to every county with one or more separated municipalities in it.

(2) Upon the coming into force of this Regulation, a county and the separated municipalities in it may enter into an agreement under which the provincial social housing costs allocated to the county and the separated municipalities are based on the percentages set out in the agreement rather than the percentages set out in the appropriate Table under subsection 6 (5).

(3) An agreement under this section may provide for the reconciliation of amounts previously allocated to the entities by the Minister and may be effective with reference to a period before it is made.

(4) The county shall forward to the Minister a copy of an agreement made under this section forthwith after it is made.

(5) If an agreement under subsection (2) is in effect in a county with one or more separated municipalities, the provincial social housing costs to be recovered from the county and the separated municipalities shall be recovered in accordance with the agreement.

8. This Regulation comes into force on January 1, 1998.



TABLE 1

## GREATER TORONTO AREA

COLUMN 1	COLUMN 2
Regional Municipality of Durham	7.3067 per cent
Regional Municipality of Halton	7.4182 per cent
Regional Municipality of Peel	18.5113 per cent
City of Toronto	52.0253 per cent
Regional Municipality of York	14.7385 per cent

TABLE 2

## TERRITORIAL DISTRICT OF KENORA

COLUMN 1	COLUMN 2
Township of Ignace	1.6865 per cent
Township of Sioux Narrows	2.6770 per cent
Town of Keewatin	4.3704 per cent
Town of Jaffray Melick	8.5065 per cent
Town of Kenora	28.6060 per cent
Township of Machin	1.8446 per cent
City of Dryden	34.0931 per cent
Township of Ear Falls	1.7022 per cent
Town of Sioux Lookout	6.5411 per cent
Township of Red Lake	3.9231 per cent
Township of Golden	5.6652 per cent
Township of Pickle Lake	0.3843 per cent

TABLE 3

## TERRITORIAL DISTRICT OF MANITOULIN

COLUMN 1	COLUMN 2
Township of Tehkummah	4.6318 per cent
Township of Carnarvon	10.6899 per cent
Township of Sandfield	5.9815 per cent
Township of Assiginack	11.1929 per cent
Town of Northeastern Manitoulin & The Islands	29.1285 per cent
Township of Billings	14.0769 per cent
Township of Gordon	8.3761 per cent
Town of Gore Bay	6.4437 per cent
Township of Burpee & Mills	2.8557 per cent
Township of Barrie Island	1.4629 per cent

Township of Cockburn Island	1.8288 per cent
Township of Rutherford & George Island	3.3313 per cent

TABLE 4

## TERRITORIAL DISTRICT OF THUNDER BAY

COLUMN 1	COLUMN 2
Township of Neebing	0.6938 per cent
City of Thunder Bay	82.8506 per cent
Township of Gillies	0.1862 per cent
Township of O'Connor	0.3360 per cent
Township of Conmee	0.3108 per cent
Township of Oliver & Paipoonge	3.2321 per cent
Township of Shuniah	2.7041 per cent
Township of Dorion	0.1914 per cent
Township of Red Rock	1.2769 per cent
Township of Nipigon	0.7816 per cent
Township of Schreiber	0.6055 per cent
Township of Terrace Bay	2.0857 per cent
Town of Marathon	2.4838 per cent
Township of Manitouwadge	0.5975 per cent
Town of Greenstone	1.6640 per cent

TABLE 5

## TERRITORIAL DISTRICT OF TIMISKAMING

COLUMN 1	COLUMN 2
Township of Coleman	1.3139 per cent
Town of Latchford	0.6600 per cent
Town of Cobalt	1.9791 per cent
Town of Haileybury	14.3867 per cent
Township of Harris	1.8734 per cent
Township of Dymond	9.0823 per cent
Town of New Liskeard	20.1780 per cent
Township of Hudson	2.5947 per cent
Township of Kerns	0.8789 per cent
Township of Harley	1.7198 per cent
Township of Casey	0.9419 per cent
Township of Brethour	0.1013 per cent
Township of Hilliard	0.4722 per cent
Township of Armstrong	3.3199 per cent
Village of Thornloe	0.1933 per cent
Township of James	1.3077 per cent
Township of Dack	1.0064 per cent



Town of Charlton	0.5856 per cent
Township of Evanturel	1.3799 per cent
Town of Englehart	5.1250 per cent
Township of Chamberlain	0.9383 per cent
Township of Matachewan	0.9017 per cent
Township of McGarry	1.2415 per cent
Township of Larder Lake	2.2109 per cent
Township of Gauthier	0.3469 per cent
Town of Kirkland Lake	25.2607 per cent

TABLE 6

## TERRITORIAL DISTRICT OF ALGOMA

COLUMN 1	COLUMN 2
Algoma District Welfare Administration Board	25.3257 per cent
City of Sault Ste. Marie	74.6743 per cent

TABLE 7

## TERRITORIAL DISTRICT OF COCHRANE

COLUMN 1	COLUMN 2
Cochrane District Welfare Administration Board	39.2331 per cent
City of Timmins	60.7669 per cent

TABLE 8

## TERRITORIAL DISTRICT OF NIPISSING

COLUMN 1	COLUMN 2
Nipissing District Welfare Administration Board	25.6729 per cent
City of North Bay	74.3271 per cent

TABLE 9

## COUNTY OF BRANT

COLUMN 1	COLUMN 2
County of Brant	28.7927 per cent
City of Brantford	71.2073 per cent

TABLE 10

## COUNTY OF ELGIN

COLUMN 1	COLUMN 2
County of Elgin	60.6564 per cent
City of St. Thomas	39.3436 per cent

TABLE 11

## COUNTY OF ESSEX

COLUMN 1	COLUMN 2
County of Essex	41.4904 per cent
Township of Pelee	0.2056 per cent
City of Windsor	58.3040 per cent

TABLE 12

## COUNTY OF FRONTENAC

COLUMN 1	COLUMN 2
Frontenac Board of Management	18.8170 per cent
City of Kingston	81.1830 per cent

TABLE 13

## COUNTY OF GREY

COLUMN 1	COLUMN 2
County of Grey	74.2512 per cent
City of Owen Sound	25.7488 per cent

TABLE 14

## COUNTY OF HASTINGS

COLUMN 1	COLUMN 2
County of Hastings	26.6142 per cent
City of Belleville	43.5475 per cent
City of Quinte West	29.8383 per cent

TABLE 15

## COUNTY OF LANARK

COLUMN 1	COLUMN 2
County of Lanark	85.4875 per cent
Town of Smith Falls	14.5125 per cent

TABLE 16

## COUNTY OF LEEDS &amp; GRENVILLE

COLUMN 1	COLUMN 2
County of Leeds & Grenville	61.8963 per cent
Town of Prescott	3.6690 per cent
City of Brockville	28.8504 per cent
Town of Gananoque	5.5843 per cent

TABLE 17

## COUNTY OF MIDDLESEX

COLUMN 1	COLUMN 2
County of Middlesex	14.1608 per cent
City of London	85.8392 per cent

TABLE 18

## COUNTY OF PERTH

COLUMN 1	COLUMN 2
County of Perth	44.6856 per cent
City of Stratford	45.5612 per cent
Town of St. Marys	9.7532 per cent

TABLE 19

## COUNTY OF PETERBOROUGH

COLUMN 1	COLUMN 2
County of Peterborough	48.5422 per cent
City of Peterborough	51.4578 per cent

TABLE 20

## COUNTY OF RENFREW

COLUMN 1	COLUMN 2
County of Renfrew	83.2529 per cent
City of Pembroke	16.7471 per cent

TABLE 21

## COUNTY OF SIMCOE

COLUMN 1	COLUMN 2
County of Simcoe	69.3531 per cent
City of Barrie	22.3295 per cent
City of Orillia	8.3174 per cent

TABLE 22

## COUNTY OF STORMONT, DUNDAS &amp; GLENGARRY

COLUMN 1	COLUMN 2
County of Stormont, Dundas & Glengarry	54.6884 per cent
City of Cornwall	45.3116 per cent

TABLE 23

## COUNTY OF WELLINGTON

COLUMN 1	COLUMN 2
County of Wellington	40.1148 per cent
City of Guelph	59.8852 per cent

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**ONTARIO REGULATION 489/97**  
made under the  
**HEALTH PROTECTION AND PROMOTION ACT**

Made: December 10, 1997

Filed: December 12, 1997

**ALLOCATION OF BOARD OF HEALTH EXPENSES**

1. (1) If the obligated municipalities in a health unit fail to agree on the proportion of the expenses referred to in subsection 72 (1) of the Act to be paid by each of them, each obligated municipality in the health unit shall pay the proportion of the expenses that is determined by dividing its population by the sum of the populations of all the obligated municipalities in the health unit.

(2) In this section,

"population" means, with respect to an obligated municipality, the population of the obligated municipality as determined from the most recent enumeration conducted under section 15 of the *Assessment Act*.

2. This Regulation comes into force on January 1, 1998.

52/97

**ONTARIO REGULATION 490/97**  
made under the  
**HEALTH PROTECTION AND PROMOTION ACT**

Made: December 10, 1997

Filed: December 12, 1997

**INTERESTS ON DEBTS UNDER SECTION 86.4 OF THE ACT**

1. (1) The interest that the Minister may require obligated municipalities to pay under subsection 86.4 (4) of the Act shall be calculated at the rate of 1.5 per cent per month on the unpaid amount for every month or part of a month that the amount remains unpaid.

(2) An obligated municipality shall pay interest required under subsection 86.4 (4) of the Act within 30 days after receiving a written demand from the Minister for payment of the interest.

2. This Regulation comes into force on January 1, 1998.

52/97

**ONTARIO REGULATION 491/97**  
made under the  
**HEALTH PROTECTION AND PROMOTION ACT**

Made: December 10, 1997  
Filed: December 12, 1997

Amending Reg. 559 of R.R.O. 1990  
(Designation of Municipal Members of Boards of Health)

Note: Regulation 559 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

**1. Sections 4, 7, 19 and 24 of Regulation 559 of the Revised Regulations of Ontario, 1990 are revoked.**

**2. Section 29 of the Regulation is revoked and the following substituted:**

**CITY OF TORONTO HEALTH UNIT**

**29.** The Board of Health for the City of Toronto Health Unit shall have the number of members established under subsection 46 (2) of the *City of Toronto Act, 1997* (No. 2), who shall be appointed in accordance with subsection 46 (3) of that Act.

**3. Section 32 of the Regulation is revoked.**

**4. This Regulation comes into force on January 1, 1998.**

52/97

**ONTARIO REGULATION 492/97**  
made under the  
**AMBULANCE ACT**

Made: December 10, 1997  
Approved: December 10, 1997  
Filed: December 12, 1997

**RECOVERY OF COSTS OF DELIVERY AGENTS**

**1.** For the purposes of section 6.9 of the Act, the costs associated with the provision of land ambulance services in a designated area shall be apportioned and paid in accordance with this regulation.

**2.** In this Regulation,

“weighted assessment” means the assessment for a property multiplied by the tax ratio, established under section 363 of the *Municipal Act*, for the property class the property is in.

**3. (1)** This section applies to a designated area that consists entirely of two or more local municipalities.

(2) The costs associated with the provision of land ambulance services in the designated area shall be apportioned among its local municipalities,

(a) in accordance with an agreement made among those municipalities; or

(b) where there is no such agreement, based on the proportion that the total weighted assessment of properties situated in each

municipality is to the total weighted assessment of all properties in the designated area.

(3) Each local municipality in the designated area shall pay its share of the costs to the delivery agent.

**4. (1)** This section applies to a designated area that consists of territory without municipal organization and of one or more local municipality.

(2) The costs associated with the provision of land ambulance services in the designated area shall be apportioned among the municipalities and the territory based on the proportion that the total value of applicable properties situated in each municipality and in the territory is to the total value of all applicable properties in the designated area.

(3) In this section,

“applicable properties” means,

(a) in the case of properties situated in a municipality, properties that are rateable for municipal purposes, and

(b) in the case of properties situated in territory without municipal organization, properties that are rateable for school purposes.

(4) For the purpose of subsection (2), the value of an applicable property shall be determined,

(a) in the case of property in a local municipality, based on the weighted assessment of the property; and

(b) in the case of property in territory without municipal organization, based on the assessment of the property rateable for school purposes.

(5) If the designated area includes more than one local municipality, the local municipalities may enter into an agreement reapportioning among themselves the share of the costs apportioned to them under subsection (2).

(6) Each local municipality in the designated area shall pay to the delivery agent its share of the costs apportioned to it in accordance with subsection (2) or (5), as the case may be.

(7) Despite subsection 6.9 (4) of the Act, the Ministry shall pay to the delivery agent the share of the costs apportioned to the territory without municipal organization in the designated area in accordance with subsection (2).

**5. (1)** This section applies to a designated area that consists entirely of territory without municipal organization.

(2) Despite subsection 6.9 (4) of the Act, the Ministry shall pay the costs associated with the provision of land ambulance services in the designated area to the delivery agent.

**6. This Regulation comes into force on January 1, 1998.**

ELIZABETH WITMER  
Minister of Health

Dated on December 8, 1997.

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**ONTARIO REGULATION 493/97**made under the  
**HEALTH PROTECTION AND  
PROMOTION ACT**Made: December 10, 1997  
Filed: December 12, 1997Amending Reg. 553 of R.R.O. 1990  
(Areas Comprising Health Units)

Note: Regulation 553 has not been amended in 1997. For prior amendments, see the Table of Regulations in the Statutes of Ontario, 1996.

1. Schedules 6, 8, 25 and 33 to Regulation 553 of the Revised Regulations of Ontario, 1990 are revoked.

2. Schedule 36 to the Regulation is revoked and the following substituted:

**Schedule 36****CITY OF TORONTO HEALTH UNIT**

1. The area described in subsection 46 (4) of the *City of Toronto Act, 1997* (No. 2).

3. Schedule 41 to the Regulation is revoked.

4. This Regulation comes into force on January 1, 1998.

**RÈGLEMENT DE L'ONTARIO 493/97**pris en application de la  
**LOI SUR LA PROTECTION ET LA  
PROMOTION DE LA SANTÉ**pris le 10 décembre 1997  
déposé le 12 décembre 1997modifiant le Règl. 553 des R.R.O. de 1990  
(Territoires constituant des circonscriptions sanitaires)

Remarque : Le Règlement 553 n'a pas été modifié en 1997. Pour les modifications antérieures, voir la Table des règlements qui figure dans les Lois de l'Ontario de 1996.

1. Les annexes 6, 8, 25 et 33 du Règlement 553 des Règlements refondus de l'Ontario de 1990 sont abrogées.

2. L'annexe 36 du Règlement est abrogée et remplacée par ce qui suit :

**Annexe 36****CIRCONSCRIPTION SANITAIRE DE LA CITÉ DE TORONTO**

1. Le territoire visé au paragraphe 46 (4) de la *Loi de 1997 sur la cité de Toronto* (n° 2).

3. L'annexe 41 du Règlement est abrogée.

4. Le présent règlement entre en vigueur le 1<sup>er</sup> janvier 1998.

52/97

**ONTARIO REGULATION 494/97**made under the  
**EDUCATION ACT**Made: December 12, 1997  
Filed: December 12, 1997**LEVYING AND COLLECTING BY  
ALTERNATIVE BOARDS**

1. The Foleyet Roman Catholic Separate School Board shall perform the duties imposed on The Foleyet District School Area Board by subsection 255 (1), section 256 and paragraph 3 of subsection 257.7 (1) of the Act and subsection 21.1 (1) of the *Provincial Land Tax Act* respecting the levying and collecting of rates, taxes or tax rates, as the case may be, in the area of jurisdiction of The Foleyet District School Area Board.

2. The Gogama Roman Catholic Separate School Board shall perform the duties imposed on The Gogama District School Area Board by subsection 255 (1), section 256 and paragraph 3 of subsection 257.7 (1) of the Act and subsection 21.1 (1) of the *Provincial Land Tax Act* respecting the levying and collecting of rates, taxes or tax rates, as the case may be, in the area of jurisdiction of The Gogama District School Area Board.

3. English-language Separate District School Board No. 55 shall perform the duties imposed by paragraphs 2 and 3 of subsection 257.7 (1) of the Act in the geographic township of Dickens in the Territorial District of Nipissing and the portion of the geographic township of Murchison, in the Territorial District of Nipissing, that is not in The Murchison, Lyell and Sabine District School Area.

4. The James Bay Lowlands Secondary School Board shall perform the duties imposed on The Moose Factory Island District School Area Board by subsection 255 (1), section 256 and paragraph 3 of subsection 257.7 (1) of the Act and subsection 21.1 (1) of the *Provincial Land Tax*

*Act respecting the levying and collecting of rates, taxes or tax rates, as the case may be, in the area of jurisdiction of The Moose Factory Island District School Area Board.*

**5. This Regulation comes into force on the later of January 1, 1998 and the day subsection 113 (2) of the *Education Quality Improvement Act, 1997* comes into force.**

DAVID JOHNSON  
*Minister of Education and Training*

Dated on December 12, 1997.

52/97

**ONTARIO REGULATION 495/97**  
made under the  
**EDUCATION ACT**

Made: December 12, 1997  
Filed: December 12, 1997

**CURRENT BORROWING LIMITS**

1. (1) For the purposes of subsection 243 (4) of the Act, the maximum amount that a board may borrow at any one time during the period specified in subsection (3), together with the total of any similar borrowings that have not been repaid and any accrued interest on those borrowings, shall be determined by the board as follows:

1. Estimate the revenue fund expenditures of the board for the fiscal year January 1, 1998 to August 31, 1998.
2. Subtract, from the amount determined under paragraph 1, the amount of revenue fund revenues of the fiscal year January 1, 1998 to August 31, 1998 already received by the board.

(2) For the purposes of paragraph 1 of subsection (1), revenue fund revenues do not include revenues derivable or derived from the sale of assets, current borrowings or issues of debentures or instruments prescribed under clause 247 (3) (f) of the Act or from a surplus including arrears of taxes and proceeds from the sale of assets.

(3) The period referred to in subsection (1) begins on January 1, 1998 and ends on the earlier of,

- (a) August 31, 1998; and
- (b) the day on which the estimates for the fiscal year ending on August 31, 1998 are adopted.

**2. This Regulation comes into force on the day subsection 113 (1) of the *Education Quality Improvement Act, 1997* comes into force.**

DAVID JOHNSON  
*Minister of Education and Training*

Dated on December 12, 1997.

**RÈGLEMENT DE L'ONTARIO 495/97**  
pris en application de la  
**LOI SUR L'ÉDUCATION**

pris le 12 décembre 1997  
déposé le 12 décembre 1997

**PLAFONDS DES EMPRUNTS À COURT TERME**

1. (1) Pour l'application du paragraphe 243 (4) de la Loi, le plafond des emprunts qu'un conseil peut contracter à un moment donné pendant la période précisée au paragraphe (3) et de la somme des emprunts similaires qui n'ont pas été remboursés et des intérêts courus sur ces emprunts, est déterminé par le conseil de la façon suivante :

1. Évaluer les dépenses du fonds d'administration générale du conseil pour l'exercice qui commence le 1<sup>er</sup> janvier 1998 et se termine le 31 août 1998.
2. Du montant déterminé aux termes de la disposition 1, soustraire les recettes du fonds d'administration générale déjà rentrées pendant l'exercice qui commence le 1<sup>er</sup> janvier 1998 et se termine le 31 août 1998.

(2) Pour l'application de la disposition 1 du paragraphe (1), les recettes du fonds d'administration générale ne comprennent pas les recettes pouvant provenir ou provenant de la vente d'éléments d'actif, d'emprunts à court terme ou de l'émission de débetures ou d'instruments prescrits en vertu de l'alinéa 247 (3) f) de la Loi de même que d'un excédent, y compris les arriérés d'impôts et le produit de la vente d'éléments d'actif.

(3) La période visée au paragraphe (1) commence le 1<sup>er</sup> janvier 1998 et se termine à celle des dates suivantes qui est antérieure à l'autre :

- a) le 31 août 1998;
- b) le jour de l'adoption des prévisions budgétaires pour l'exercice se terminant le 31 août 1998.

**2. Le présent règlement entre en vigueur le jour où le paragraphe 113 (1) de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation* entre en vigueur.**

DAVID JOHNSON  
*Ministre de l'Éducation et de la Formation*

Fait le 12 décembre 1997.

**ONTARIO REGULATION 496/97**made under the  
**EDUCATION ACT**

Made: December 12, 1997

Filed: December 12, 1997

**RESERVE FOR WORKING  
FUNDS LIMIT**

1. The maximum amount that a district school board may provide for a reserve for working funds for the period January 1, 1998 to August 31, 1998 is 5 per cent of the amount estimated by the board as its revenue fund expenditures for the period January 1, 1998 to August 31, 1998.

2. This Regulation comes into force on the day subsection 113 (1) of the *Education Quality Improvement Act, 1997* comes into force.

DAVID JOHNSON

*Minister of Education and Training*

Dated on December 12, 1997.

52/97

**RÈGLEMENT DE L'ONTARIO 496/97**pris en application de la  
**LOI SUR L'ÉDUCATION**

pris le 12 décembre 1997

déposé le 12 décembre 1997

**PLAFOND DE LA RÉSERVE POUR  
FONDS DE ROULEMENT**

1. Le plafond de la somme qu'un conseil scolaire de district peut affecter à une réserve pour fonds de roulement à l'égard de la période comprise entre le 1<sup>er</sup> janvier 1998 et le 31 août 1998 correspond à 5 pour cent du montant des dépenses de son fonds d'administration générale pour cette même période, évalué par le conseil.

2. Le présent règlement entre en vigueur le jour où le paragraphe 113 (1) de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation* entre en vigueur.

DAVID JOHNSON

*Ministre de l'Éducation et de la Formation*

Fait le 12 décembre 1997.

**ONTARIO REGULATION 497/97**made under the  
**EDUCATION ACT**

Made: December 12, 1997

Filed: December 12, 1997

**DISPOSITION OF SCHOOL SITES****INTERPRETATION**

1. (1) In this Regulation,

"proposal" means a proposal issued by a board under subsection 2 (1).

(2) A reference in this Regulation to a school site or part of a school site is to a school site or part of a school site of a board to which a resolution under clause 194 (3) (a) of the Act applies.

**PROPOSAL TO CERTAIN BODIES BEFORE DISPOSITION**

2. (1) A board that wishes to sell, lease or otherwise dispose of a school site or part of a school site shall first issue a proposal of the sale or lease of the site or part to each of the following bodies on the same day:

1. If the board issuing the proposal is a public board, the other public board the area of jurisdiction of which includes the site or part.
2. If the board issuing the proposal is a Roman Catholic board, the other Roman Catholic board the area of jurisdiction of which includes the site or part.
3. If the board issuing the proposal provides English-language instruction as defined in subsection 58.1 (1) of the Act, the other board that provides such English-language instruction the area of jurisdiction of which includes the site or part.

4. If the board issuing the proposal provides French-language instruction as defined in subsection 58.1 (1) of the Act, the other board that provides such French-language instruction the area of jurisdiction of which includes the site or part.

5. The other board the area of jurisdiction of which includes the site or part.

6. If the proposal is made before September 1, 1998, the Ontario Realty Corporation continued under the *Capital Investment Plan Act, 1993*.

7. If the board issuing the proposal is an English-language public board or an English-language Roman Catholic board, the English-language college of applied arts and technology named in Regulation 771 of the Revised Regulations of Ontario, 1990 made under the *Ministry of Colleges and Universities Act* for the area in which the site or part is located.

8. If the board issuing the proposal is a French-language district school board, the French-language college of applied arts and technology named in Regulation 771 of the Revised Regulations of Ontario, 1990 made under the *Ministry of Colleges and Universities Act* for the area in which the site or part is located.

9. The other college of applied arts and technology named in Regulation 771 of the Revised Regulations of Ontario, 1990 made under the *Ministry of Colleges and Universities Act* for the area in which the site or part is located.

10. The university set out in section 9 the head office of which is nearest to the site or part.

11. The municipality in which the site or part is located.

12. The regional municipality, The District Municipality of Muskoka or the County of Oxford, if the site or part is located in a regional municipality, the District Municipality of Muskoka or the County of Oxford.



## 13. The Crown in right of Ontario.

## 14. The Crown in right of Canada.

(2) A body mentioned in paragraphs 11 to 14 of subsection (1) to which a proposal is issued may refer the proposal,

(a) if it is a municipality, the regional municipality, The District Municipality of Muskoka or the County of Oxford, to any local board of the municipality, the regional municipality, The District Municipality of Muskoka or the County of Oxford, as the case may be; and

(b) if it is the Crown in right of Ontario or the Crown in right of Canada, to any agency, board or commission of the Crown in right of Ontario or the Crown in right of Canada, as the case may be.

(3) In clause (2) (a),

"local board" has the same meaning as in section 1 of the *Municipal Affairs Act* but does not include a school board.

3. (1) Subject to subsections (2) and (3), a proposal shall propose the sale or lease of a school site or part of a school site at fair market value.

(2) A proposal issued before September 1, 1998 to a body mentioned in paragraphs 1 to 6 of subsection 2 (1) to which a proposal must be issued shall propose the sale or lease of a school site or part of a school site at no cost.

(3) On or after September 1, 1998, a proposal in respect of a school site or part of a school site that provides or is capable of providing pupil accommodation that is issued or referred under section 2 to any of the bodies mentioned in subsection (4) shall propose the sale or lease of the site or part at a price that is the lesser of fair market value and an amount equal to the capacity of the building on the site or part multiplied by the legislative grant for each new pupil place for the board issuing the proposal.

(4) The bodies referred to in subsection (3) are the following:

1. A board mentioned in paragraphs 1 to 5 of subsection 2 (1) to which a proposal must be issued.
2. A school continued or established under section 13 of the Act that offers an elementary school program or a program leading to a secondary school diploma.
3. A publicly-funded care and treatment facility in which a board offers an elementary school program or a program leading to a secondary school diploma.

(5) In subsection (3),

"capacity" means the number of pupil places as determined by the Minister for the purpose of the calculation of legislative grants for new pupil places and, in respect of a school site or part of a school site that provides or is capable of providing accommodation for elementary school pupils, means elementary school capacity and, in respect of a site or part that provides or is capable of providing accommodation for secondary school pupils, means secondary school capacity.

(6) A proposal of the lease of a school site or part of a school site shall specify the term of the lease.

## OFFERS AND AGREEMENTS AFTER PROPOSAL ISSUED

4. (1) A board shall not accept any offer to purchase, lease or otherwise acquire a school site or part of a school site that is the subject of a proposal before the expiration of 90 days after the day on which the board issued the proposal.

(2) At the expiration of the 90-day period referred to in subsection (1), the only offer that the board may accept, subject to subsections (4) to (6), is an offer to purchase or lease the school site or part of the school site that,

(a) depending on whether the offer is in response to a proposal referred to in subsection 3 (1), (2) or (3), is at fair market value, no cost or the price determined under subsection 3 (3), as the case may be; and

(b) is made by the body to which the proposal was issued that is mentioned in the paragraph of subsection 2 (1) that has the lowest paragraph number.

(3) For the purpose of clause (2) (b), the body to which the proposal was issued includes the body to which the proposal is referred under subsection 2 (2).

(4) If the body from whom the board may accept an offer and the board disagree on what price is the fair market value of the school site or part of the school site,

(a) they shall attempt, within 30 days of the 90-day period referred to in subsection (1), to negotiate a price that they agree is the fair market value of the site or part and the body shall amend its offer to reflect the agreed price;

(b) if they cannot agree under clause (a) on what price is the fair market value of the site or part, the body making the offer may, at or before the termination of the 30-day period referred to in clause (a),

(i) withdraw its offer; or

(ii) elect to have that price determined through binding arbitration and shall amend its offer according to the price determined by the arbitrator; and

(c) if no price is agreed to under clause (a) at the termination of the 30-day period referred to in clause (a) or the body withdraws its offer or does not elect binding arbitration under clause (b), the board may consider instead the offer of the body to which the proposal was issued that is mentioned in the paragraph of subsection 2 (1) that has the next lowest paragraph number and whose offer complies with subsection (2) except for the requirement under clause (2) (b).

(5) Subsection (4) applies to each subsequent offer that the board considers under clause (4) (c) except that the reference to the 90-day period shall be read as the day on which the board acts under clause (4) (c).

(6) Subsections (4) and (5) apply to,

(a) an offer in response to a proposal referred to in subsection 3 (1); and

(b) an offer in response to a proposal referred to in subsection 3 (3) but do not apply if the offer is for the calculated amount referred to in subsection 3 (3).

5. (1) An agreement for the sale or lease of a school site or part of a school site to a board mentioned in paragraph 1 of subsection 3 (4) resulting from a proposal referred to in subsection 3 (3) shall include a

condition that if the board does not use the site or part to provide accommodation for pupils eligible to be included in the calculation of legislative grants for new pupil places for any period of 12 consecutive months within the 25 years after the sale or the commencement of the lease,

(a) in the case of a sale, the board shall offer the site or part for sale to the board from which it purchased the site or part at the price the board from which it was purchased sold it to the board, within the time specified in the agreement; and

(b) in the case of a lease, the lease is terminated on the day specified in the agreement.

(2) An offer for the sale of a school site or part of a school site under clause (1) (a) or the resulting sale, or the termination of a lease under clause (1) (b), is not a closing of the school.

(3) This section applies only where the calculated amount referred to in subsection 3 (3) is less than the fair market value of the school site or part of the school site at the time of the issuance of the proposal.

#### DISPOSITION TO OTHERS AFTER PROPOSAL PROCESS

6. (1) If a board does not receive an offer from a body to which a proposal is issued or referred under section 2 before the expiration of the 90-day period referred to in subsection 4 (1) that complies with clause 4 (2) (a), the board may, subject to subsections (2) and (3), sell, lease or otherwise dispose of the school site or part of the school site at fair market value to any other body or to any person.

(2) If the proposal referred to in subsection (1) is only for the lease of a school site or part of a school site, the board that issued the proposal may, under subsection (1), lease but not sell or otherwise dispose of the site or part, and the lease shall be for the term specified in the proposal.

(3) A board shall not sell, lease or otherwise dispose of a school site or part of a school site under subsection (1) unless it provides written evidence satisfactory to the Minister that,

(a) it first issued a proposal of the sale or lease of the site or part to each body to which a proposal must be issued under subsection 2 (1); and

(b) no offer was received by the board from a body to which the proposal was issued or referred under section 2 before the expiration of the 90-day period referred to in subsection 4 (1) that complies with clause 4 (2) (a).

(4) For the purposes of subsections (1) and (3), the reference to compliance with clause 4 (2) (a) means as determined under subsections 4 (4) and (5) if those provisions were applied in the case of the offer.

#### MISCELLANEOUS

7. (1) A board shall place the proceeds of every sale, lease or other disposition of a school site or part of a school site in its pupil accommodation reserve fund.

(2) A board may withdraw from its pupil accommodation reserve fund an amount that does not exceed the amount of the proceeds placed

in the fund under subsection (1) and the interest on those proceeds, for the purpose of purchasing, leasing or otherwise acquiring a school site or part of a school site to provide pupil accommodation.

8. If a board does not sell, lease or otherwise dispose of a school site or part of a school site within three years of the expiration of the 90-day period referred to in subsection 4 (1) and the board wishes to sell, lease or otherwise dispose of the site or part, the board shall issue another proposal.

9. The universities referred to in paragraph 10 of subsection 2 (1) are the following:

Brock University

Carleton University

Lakehead University

Laurentian University of Sudbury

McMaster University

Nipissing University

Ontario College of Art

Queen's University at Kingston

Ryerson Polytechnic University

The University of Western Ontario

Trent University

University of Guelph

University of Ottawa/Université d'Ottawa

University of Toronto

University of Waterloo

University of Windsor

Wilfrid Laurier University

York University

10. This Regulation comes into force on the later of January 1, 1998 and the day section 100 of the *Education Quality Improvement Act, 1997* comes into force.

DAVID JOHNSON  
Minister of Education and Training

Dated on December 12, 1997.

52/97

**ONTARIO REGULATION 498/97**made under the  
**EDUCATION ACT**

Made: December 12, 1997

Filed: December 12, 1997

**RÈGLEMENT DE L'ONTARIO 498/97**pris en application de la  
**LOI SUR L'ÉDUCATION**

pris le 12 décembre 1997

déposé le 12 décembre 1997

**ALLOCATIONS TO RESERVE FUND FOR  
PERMANENT IMPROVEMENTS**

1. The maximum amount that a district school board may allocate from its revenues to a reserve fund for permanent improvements in a fiscal year shall be determined by the board as follows:

1. Estimate the revenue fund revenues for the board for the fiscal year.
2. Multiply the amount obtained under paragraph 1 by 1 per cent.
3. Add to the amount obtained under paragraph 2 the estimated revenue from the sale or disposal of, or from insurance proceeds in respect of, permanent improvements.

2. This Regulation comes into force on the day subsection 113 (1) of the *Education Quality Improvement Act, 1997* comes into force.

DAVID JOHNSON

*Minister of Education and Training*

Dated on December 12, 1997.

52/97

**AFFECTATIONS À UN FONDS DE RÉSERVE POUR  
AMÉLIORATIONS PERMANENTES**

1. Le plafond de la tranche des recettes qu'un conseil scolaire de district peut affecter au cours d'un exercice à un fonds de réserve pour améliorations permanentes est déterminé par ce dernier de la façon suivante :

1. Évaluer les recettes du fonds d'administration générale du conseil pour l'exercice.
2. Multiplier la somme obtenue aux termes de la disposition 1 par 1 pour cent.
3. Au produit obtenu aux termes de la disposition 2, ajouter les recettes estimatives provenant de la vente ou de la disposition d'améliorations permanentes ou du produit d'assurances sur celles-ci.

2. Le présent règlement entre en vigueur le jour où le paragraphe 113 (1) de la *Loi de 1997 sur l'amélioration de la qualité de l'éducation* entre en vigueur.

DAVID JOHNSON

*Ministre de l'Éducation et de la Formation*

Fait le 12 décembre 1997.

**CORRECTION**

Ontario Regulation 435/97 under the *Public Service Act* published in the December 20, 1997 issue of *The Ontario Gazette*.

Paragraph 4 of section 9, as set out in Ontario Regulation 435/97, should have read as follows:

4. If the employment would constitute full-time employment for another person. This paragraph does not apply with respect to a public servant who is employed part-time by the Crown, or is on a leave of absence (as defined in subsection 70 (1) of Regulation 977 of the Revised Regulations of Ontario, 1990) or on secondment.





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